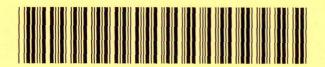
682IHSSF2217



DocumentID

NONCD0002839

Site Name

PERRY AUTO/YOUNG RESIDENCE

DocumentType

Correspondence (C)

RptSegment

1

DocDate

4/4/2006

DocRcvd

2/20/2007

Вох

SF2217

AccessLevel

PUBLIC

Division

WASTE MANAGEMENT

Section

SUPERFUND

Program

IHS (IHS)

DocCat

FACILITY

Incident	Ma	nagement	Data E	ntry R	eco	rd
Incident Information			4/4/	2006 1:55	:21PM	1
Incident Number	8753	88	Site P	riority		
Incident Name	Perry	Residence/Young's	Auto			
Incident Address	4172	US Hwy 117 Altern	ate S.			
Incident City/Town	Dudl	ey	Incide	nt Zip	28333	
County	Way	ne				
RO Contact	Rose	Ballance				
Responsible Party Inf	ormo	ation				
RP Contact	Your	ng, Ricky				
RP Company	Your	ng's Auto Center & S	alvage			
RP Address	4172	US 117 Alternate S				
RP City	Dudl	ey	RP S	tate	North	Carolina
RP Zip	2833					<u> </u>
RP Phone	9196	317979				
Ownership Type	Priva	ite				·
Operation Type	Unkı	nown				
Contamination Inform	natio	n	GW Co	ntaminati	on (Y	/N)
Sources		Type	v	Vells		
Unknown		Other Petroleum Pr	oducts	Private Wel		1
				Private Non	Drinkir	ıg
				Public Well		
Status Information						
Report/Discovery Date	09/2	7/2005	Phase		Dis	scovery
Notice Date	i		Next Due D	ate	7	
Next Action	j		-1 			
CSA Received	i		CAP Type		No	ne
CSA Approved			CAP Recei	ved		
CSA Reviewed	i		CAP Revie	wed] [
Last Modified	02/1	6/2006	CAP Appro	ved		
			CAP Imple	mented]	
Locational Informati	ion					
Latitude (DMS)	11		Longitude ((DMS)		
	ī l		Longitude ('עע	7	
Latitude (DD)	11_		Loughauc (עען	1 L	

Comments Wayne County Env. Health Dept. sampled water supply well at a residence owned by Mr. Johnnie Perry. Sample results indicated presence of MTBE at levels of 0.8 ppm. Aquifer Protection Section staff was notified and resampled on 9/27/2005. Results were confirmed. Requesting Field Investigation Unit assistance in determining RP. Perry Residence is located in the middle of approx. 90 acres of property owned by Ricky Young used for Young's Auto Center & Salvage.

April 24, 2006

Rosemarie Balance, LG
Hydrogeologist
DIVISION OF WATER QUALITY
Aquifer Protection Section

Dear Ms. Balance,

We received a letter from Carrie Stone in November of 2005 asking for permission from the Department of Environment and Natural Resources to enter upon the ground waters under the authority of G.S. 143-215.3(a), including access to and permission to install monitoring wells to collect samples in association with our property located at 4172 A US 117 South Alternate, Dudley, North Carolina 28333.

We returned in December of 2005 a joint signed letter addressed to Carrie Stone, DWQ-Washington Regional Office, 943 Washington Square Mall, Washington, NC 27889 given the Department permission to conduct a water quality investigation.

We regret our letter did not reached the proper channel.

Once again, we are given in writing as well as phone permission to conduct a water quality investigation at 4172 A US 117 South Alternate, Dudley, NC 28333. As stated by your department, we will not interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

Please feel free to contact me on my cell phone at (919) 738 - 1144 or my wife on her cell phone at (919) 273-0353 or our home phone at (919) 734-8455 for additional information or service.

Sincerely,

Johnnie Perry, Ja

Please return to:

Carrie Stone

DWQ-Washington Regional Office 943 Washington Square Mall Washington, NC 27889

SUBJECT: Agreement for the Use of a Site for a Groundwater Investigation.

Site Identification:

Dear Ms. Stone:

I am (We are) the owner(s) of the parcel of property as described herein and do hereby grant permission for the Department of Environment and Natural Resources (referred to as the Department) to enter upon the groundwaters under the authority of G.S. 143-215.3(a)2, including access to and permission to install monitoring wells to collect samples in association with the above listed property.

I am (We are) granting permission with the understanding that:

- 1. The Aquifer Protection Section of the Department's Division of Water Quality shall conduct the investigation.
- 2. The costs of construction and maintenance of monitoring wells at the site and access shall be borne by the Department. The Department shall protect and prevent damage to the surrounding lands.
- 3. Unless otherwise agreed, the Department shall have access to the site by the shortest feasible route to the nearest public road. The Department may enter on the land at reasonable times and have full right of access during the period of investigation.
- 4. At the end of the investigation, unless otherwise provided for by prior written agreement, the Department shall remove from the site all structures placed or erected by it and shall permanently abandon all wells constructed by it.
- 5. Any claims that may arise against the Department shall be governed by Article 31 of Chapter 143 of the North Carolina General Statutes, Tort Claims Against State Departments and Agencies, and as otherwise provided by law.
- 6. The information derived from the investigation shall be made available to the owner on request and is a public record, in accordance with G.S. 132-1 et seq.
- 7. The activities carried out by the Department are for the primary benefit of the Department and of the State of North Carolina and any benefits accruing to the owner are incidental. The Department is not and shall not be construed to be an agent, employee, or contractor of the owner of the land.

I/We agree not to interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

Sincerely,	
Signature(s):	 Date:
Print Name(s):	 Phone Number:
Address:	

DIVISION OF WATER QUALITY

COUNTY: QUAD NO:	WAYNE	-			Chemistry Laborato SAMPLE PRIORITY X ROUTINE	· _ ·	MERGENCY				Lab Number : ABU4271 Date Received : 5/17/2006 Time Received : 9:00 AM Received By : DS
REPORT TO: COLLECTOR(S) DATE: TIME:	WARO : C STONE 5/16/2006 10:05	Regional C	ffice		CHAIN OF CUSTODY W SAMPLE TYPE		WS-1				Released By : SMM Date reported : 6/14/2006
PURPOSE:			Ov	vner:	JOHNNIE PERRY						
		_	Lo	cation or Site:				- -			
			De	scription of sampling poi	nt			<u>-</u>			
				mpling Method:				-			
			Re	marks:				-			
LABORAT	ORY ANALYSIS		_						_		
BOD 310		mg/L	L	Diss. Solids 70300	mg/L	<u> x</u>	Ag-Silver 46566	5.0U ug/L	ļ		Organochlorine Pesticides
COD High 3	40	mg/L	L	Fluoride 951	mg/L	<u> x</u>	Al-Aluminum 46557	1000 ug/L	1		Organophosphorus Pesticides
COD Low 3	35	mg/L	L	Hardness: total 900	mg/L	<u> </u>	As-Arsenic 46551	5.0U ug/L	1	_	Nitrogen Pesticides
Coliform: M	F Fecal 31616	/100ml	L	Hardness: (non-carb) 9	02 mg/L	<u> x</u>	Ba-Barium 46558	280 ug/L√	1		
Coliform: M	F Total 31504	/100ml	L	Phenois 32730	ug/L	_ <u> </u> <u> </u> ⊻	Ca-Calcium 46552	1.3 mg/L	L	_	Acid Herbicides
TOC		mg/l	L	Specific Cond. 95	umhos/cm2	_ <u> </u> <u> </u> ×	Cd-Cadmium 46559	2.0U ug/L	L		
Turbidity		NTU	L	Sulfate	mg/L	ı⊻	Cr-Chromium 46560	25U ug/L ·	L		Semivolatiles
Residue., Sus	spended 530	mg/L		Sulfide 745	mg/L] X	Cu- Copper 1042	100 ug/L √	L		TPH-Diesel Range
Total Suspen	ded solids	mg/L_		MBAS	mg/L] [x	Fe- Iron 1045	290 ug/L√	Ł		
				Oil and Grease	mg/L	_ X	Hg- Mercury 71900	0.77 ug/L √	Ŀ	x	Volatile Organics (VOA bottle)
pH		units		Silica	mg/L] [x	K-Potassium 46555	2.5 mg/L	L		
Alkalinity to	pH 4.5	mg/L	С	Boron] [x	Mg- Magnesium 927	3.0 mg/L	L		TPH-Gasoline Range
Alkalinity to	pH 8.3	mg/L		Formaldehyde	mg/L] [x	Mn-Manganese 1055	(55 ug/L\)	Į		TPH-BTEX Gasoline Range
Carbonate		mg/L	Г	NH3 as N 610	mg/L		Na- Sodium 929	3.5 mg/L	L		
Bicarbonate		mg/L		TKN as N 625	mg/L] [x	Ni-Nickel	10U ug/L	[
Carbon dioxi	ide	mg/L	Г	NO2 +NO3 as n 630	mg/L	\sqrt{x}	Pb-Lead 46564	10U ug/L	I		
Chloride		mg/L	Г	P: Total as P 665	mg/L	$\exists \ x$	Se-Selenium	5.0U ug/L	I		
Chromium: I	lex 1032	ug/L	Г	PO4	mg/L	$\int x$	Zn-Zinc 46567	29 ug/L	I		
Color: True 8	30	c.u.	Г	Nitrate (NO ₃ as N) 620		7 [Ī		
Cyanide 720		mg/L	Г	Nitrite (NO ₂ as N) 615	mg/L	7			Ţ		
COMMENTS:											
										_	
									_		

DIVISION OF WATER QUALITY

Chemistry Laboratory Report / Ground Water Quality

COUNTY: QUAD NO:	WAYNE	=	SAMPLE PRIORIT X ROUTINE	YEMERGENCY	
REPORT TO : COLLECTOR(S) DATE: TIME:	WARO : C STONE 5/16/2006 10:15	Regional Office	CHAIN OF CUSTODY W SAMPLE TYPE	TRIP BLANK	
PURPOSE:		Owner:	DEER PARK BOTTLED	WATER	
		Location or Site:			
		Description of sampling po	pint		
		Sampling Method:			
		Remarks:			

Lab Number : AB04272 Date Received: 5/17/2006 Time Received: 9:00 AM Received By:

Date reported: 5/24/2006

LABORATORY ANALYSIS

BOD 310	mg/L,
COD High 340	mg/L,
COD Low 335	mg/L
Coliform: MF Fecal 31616	/100ml
Coliform: MF Total 31504	/100ml
TOC	mg/l
Turbidity	NTU
Residue., Suspended 530	mg/L
Total Suspended solids	mg/L
рН	units
Alkalinity to pH 4.5	mg/L
Alkalinity to pH 8.3	mg/L
Carbonate	mg/L
Bicarbonate	mg/L
Carbon dioxide	mg/L
Chloride	mg/L
Chromium: Hex 1032	ug/L
Color: True 80	c.u.
Cyanide 720	mg/L

Diss. Solids 70300	mg/L
Fluoride 951	mg/L
Hardness: total 900	mg/L
Hardness: (non-carb) 902	mg/L
Phenols 32730	ug/L
Specific Cond. 95	umhos/cm2
Sulfate	mg/L
Sulfide 745	mg/L
MBAS	mg/L
Oil and Grease	mg/L
Silica	mg/L
Boron	
Formaldehyde	mg/L
NH3 as N 610	mg/L
TKN as N 625	mg/L
NO2 +NO3 as n 630	mg/L
P: Total as P 665	mg/L
PO4	mg/L
Nitrate (NO ₃ as N) 620	mg/L
Nitrite (NO ₂ as N) 615	mg/L

Ag-Silver 46566	ug/L
Al-Aluminum 46557	ug/L
As-Arsenic 46551	ug/L
Ba-Barium 46558	ug/L
Ca-Calcium 46552	mg/L
Cd-Cadmium 46559	ug/L
Cr-Chromium 46560	ug/L
Cu- Copper 1042	ug/L
Fe- Iron 1045	ug/L
Hg- Mercury 71900	ug/L
K-Potassium 46555	mg/L
Mg- Magnesium 927	mg/L
Mn-Manganese 1055	ug/L
Na- Sodium 929	mg/L
Ni-Nickel	ug/L
Pb-Lead 46564	ug/L
Se-Selenium	ug/L
Zn-Zinc 46567	ug/L

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COMMENTS:

MAY 26 2006

MASHINGTON REGIONAL OFFICE

WASHINGTON REGIONAL OFFICE

AB04272

GROUNDWATER FIELD/LAB FORM

Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

County DANNE Quad No Serial No Long. Soil	1	611401		SAMPLE PRIORITY	AMPLE TYPE		2005024	cation code APSWWAYNE
Date Received Course Co	2	Number WGUOLG	Lab Nu		Water Water			ounty ? DAYNE
Chain of Custody Chain of Cus	4:00	Received 5. 17 Optime: 9.	Date Re	☐ Emergency] Soil	1111		
Chain of Custody	ouner, Hand Del	d By: From:Bus Count	Rec'd B		Other		i No	t long
Report To: ARO, FRO, MRO, RRO, WRO, WRO, WRO, WRO, WRO, WRO, Kinston FO, Fed. Trust, Central Off., Other: Date Reported: Date Reported:		er.	Other:		☐ Chain of Custody			Long.
Date Reported: Date Reported: Date Reported: Date Reported: Purpose: Purpose: Purpos	2k:	a Entry By: Ck:	Data Er	السحصحا		VIRO.	RO. WaRO V	eport To: ARO, FRO, MRO, RR
Purpose Purp		e Reported:	Date R			Other:	Central Off.,	SRO. Kinston FO. Fed. Trust. C
Hard Application Applica	aor:	Cit Out Federal Tour Other			Purpose		Del., Other.	nipped by: Bus Courier Hand D
Hard Application Applica	iei	esticide Study, Federal Trust, Other	Compliance, LUS1, Pesti	Baseline, Complaint,	00 Time 10:15 AM	Date 5-16-00		ollector(s): C STONE
Description of sampling point Sample Interval			D Hau	K THICK WILLO	Owner_De			ELD ANALYSES
Page			*		_at 25°C Location or s	1.94	Spec. Cond	1 400
CoD High 340 Flooride 951 mg/L CoD Low 335 mg/L Hardness; Total 900 mg/L Colfform; MF Fotal 31616 7100ml Phenols 32730 ug/l Colfform; MF Total 31504 7100ml Sulfate 945 mg/L Sulfate 945 mg/L Colfform; MF Total 31504 mg/L Sulfate 945 mg/L Sulfate 945 mg/L Fe-Iron 46563 ug/L Fe-Iron 46563 ug/L Fe-Iron 46563 ug/L Fe-Iron 46564 ug/L Fe-Iron 46565 ug/L Fe-Iron 46563 ug/L Fe-Iron 46565 ug/L E-Iron 46565 ug/L E-I		Sample Interval		thod	Sampling Me		Odor	emp. ₁₀
## ABORATORY ANALYSES ## BOD 310					Remarks			
Diss, Solids 70300 mg/L Diss, Solids 70300 mg/L COD High 340 mg/L COD Low 335 mg/L Hardness: Total 900 mg/L Hardness: Total 900 mg/L Coliforn: MF Fecal 31616 /100ml Hardness: Total 900 mg/L Diss, Solids 70300 mg/L Hardness: Total 900 mg/L Hardness: Total 900 mg/L Ba-Barium 46558 ug/L Diss, Solids 70300 mg/L Diss, Solid		time, air temp., etc.)	(Pumping time					
COD		Organochlorine Pesticides	ug/L	Ag-Silver 46566	300 mg/L	Diss, Solids 7030	mg/L	
Coliform: MF Fecal 31616		Organophosphorus Pesticides	7 ug/L	Al-Aluminum 4655	mg/L	Fluoride 951	mg/L	COD High 340
Coliforn: MF Total 31504		Nitrogen Pesticides	ug/L	As-Arsenic 46551	d 900 mg/L	Hardness: Total 9	mg/L	COD Low 335
Total stand Friends 1504 Friends 1505 Friends 1504 Friends 1504 Friends 1504 Friends 1505 Friends 1504 Frien		Acid Herbicides	ug/L	Ba-Barium 46558	-carb) 902 mg/L	Hardness (non-ca	/100ml	Coliform: MF Fecal 31616
Turbidity 76		PCBs	. mg/L	Ca-Calcium 46552	ug/l	Phenols 32730	/100ml	Coliform: MF Total 31504
Residue, Suspended 530 mg/L Sulfide 745 mg/L Semivolatile Organics TPH-Diesel Range TPH-Gasoline Range TPH-Gasoline Range TPH-Gasoline Range TPH-BTEX Gasoline Range TPH-BTEX Gasoli			59 ug/L	Cd-Cadmium 465	95 uMhos/cm	Specific Cond. 95	mg/L	TOC 680
Fe-Iron 46563 ug/L			59 ug/L	Cr-Chromium 465	mg/L	Sulfate 945	UTM	Turbidity 76
Dil and Grease mg/L Hg-Mercury 71900 ug/L TPH-Diesel Range			ug/L_		mg/L	Sulfide 745	mg/L	Residue, Suspended 530
PH 403								·
Mg-Magnesium 46554 mg/L Mg-Magnesium 46556 mg/L Mg-Magnesium 46554 mg/L Mg-Magnesium 46554 mg/L Mg-Magnesium 46554 mg/L Mg-Magnesium 46556 mg/L		TPH-Diesel Range			mg/L	Oil and Grease		THE STATE OF THE S
Akalinity to pH 4.3 410 mg/L Mn-Manganese 46565 ug/L TPH-Gasoline Range TPH-BTEX Gasoline Range TP							units	pH 403
Carbonate 445 mg/L NH ₃ as N 610 mg/L Ni-Nickel mg/L Ni-Nickel mg/L TPH-Gasoline Range TPH-BTEX Gasoline Range TPH-BTEX Gasol							mg/L	Alkalinity to pH 4.5 410
Dicarbonate 445 Miny as N 625 Mg/L							mg/L	Alkalinity to pH 8.3 415
Carbon dioxide 405 mg/L NO ₂ + NO ₃ as N 630 mg/L Pb-Lead 46564 ug/L Chloride 940 mg/L Pr. Total as P 665 mg/L Nitrate (NO ₃ as N) 620 mg/L Zn-Zinc 46567 ug/L LAB USE ONLY Temperature on arrival (°C):					mg/L	NH ₃ as N 610	mg/L	Carbonate 445
Chloride 940 mg/L P: Total as P 665 mg/L Se-Selenium ug/L Zn-Zinc 46567 ug/L Color: True 80 CU Nitrite (NO ₂ as N) 615 mg/L Zn-Zinc 46567 ug/L LAB USE ONLY Temperature on arrival (°C):		TPH-BTEX Gasoline Range					mg/L	Bicarbonate 440
Chromium: Hex 1032 ug/L Nitrate (NO ₂ as N) 620 mg/L Zn-Zinc 46567 ug/L LAB USE ONLY Temperature on arrival (°C): C							mg/L	Carbon dioxide 405
Color: True 80 CU Nitrite (NO ₂ as N) 615 mg/L LAB USE ONLY Temperature on arrival (°C):							mg/L	Chloride 940
Color: True 80 CU Nitrite (NO ₂ as N) 615 IIIg/L Temperature on arrival (°C):		LARTISE ONLY		Zn-Zinc 46567		Nitrate (NO ₃ as N	ug/L	Chromium: Hex 1032
	.4	Temperature on arrival (°C):	 		N) 615 mg/L	Nitrite (NO ₂ as N	CU	Color: True 80
							mg/L	Cyanide 720
Lab Comments	N ET	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Lab Comments
1 15 (4) 15 1		15 (0) 15 0		11.11				

WASHINGTON REGIONAL OFFICE DWQ

ENR/DWQ LABORATORY VOLATILE ANALYTICAL REPORT

LAB NO. AB04272

SUPERVISOR

ENTERED BY

. REPORTED BY CHECKED BY REVIEWED BY

SAMPLE TYPE: WATER

SAMPLE TYPE: WATER			ANALYTIC	AL RESULTS		DATE	
CAS#	Volatile Organic Target Compound	PQL ug/L	RESULT ug/L	CAS#	Volatile Organic Target Compound	PQL ug/L	RESULT ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	630-20-6	1,1,1,2-Tetrachloroethane	0.25	ι
74-87-3	Chloromethane	0.50	U	75-25-2	Bromoform	1.0	ı
75-01-4	Vinyl Chloride	0.50	U	79-34-5	1,1,2,2-Tetrachloroethane	0.25	L
74-83-9	Bromomethane	0.50	U	96-18-4	1,2,3-Trichloropropane	0.25	ı
75-00-3	Chloroethane	0.50	U	108-86-1	Bromobenzene	0.25	
75-69-4	Trichlorofluoromethane	0.50	U	95-49-8	2-Chlorotoluene	0.25	l
75-35-4	1,1-Dichloroethene	0.25	U	106-43-4	4-Chlorotoluene	0.25	ı
75-09-2	Methylene Chloride	10	U	541-73-1	1,3-Dichlorobenzene	0.25	ı
156-60-5	trans-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	
75-34-3	1,1-Dichloroethane	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	ı
594-20-7	2,2-Dichloropropane	0.25	U	96-12-8	1,2-Dibromo-3-Chloropropane	2.0	ı
156-59-4	cis-1,2-Dichloroethene	0.25	U	120-82-1	1.2.4-Trichlorobenzene	0.50	
67-66-3	Chloroform	0.25	U	87-68-3	Hexachlorobutadiene	0.50	(
74-97-5	Bromochloromethane	0.25	U	87-61-6	1,2,3-Trichlorobenzene	1.0	
71-55-6	1,1,1-Trichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	0.25	
563-58-6	1,1-Dichloropropene	0.25	U	71-43-2	Benzene	0.25	l
56-23-5	Carbon Tetrachloride	0.25	U	108-88-3	Toluene	0.25	· ·
107-06-2	1,2-Dichloroethane	0.25	U	100-41-4	Ethyl benzene	0.25	· ·
79-01-6	Trichloroethene	0.25	U	108-38-3	m,p-Xylenes	0.50	
78-87-5	1,2-Dichloropropane	0.25	U	95-47-6	o-Xylene	0.25	į,
75-27-4	Bromodichloromethane	0.25	U	100-42-5	Styrene	0.25	· ·
74-95-3	Dibromomethane	1.0	U	98-82-8	Isopropylbenzene	0.25	1
10061-01-5	cis-1,3-Dichloropropene	0.25	U	103-65-1	n-Propylbenzene	0.25	
10061-02-6	trans-1,3-Dichloropropene	0.25	U	108-67-8	1,3,5-Trimethylbenzene	0.25	·
79-00-5	1,1,2-Trichloroethane	0.25	U	98-06-6	tert-Butylbenzene	0.25	ı
127-18-4	Tetrachloroethene	0.25	U	95-63-6	1,2,4-Trimethylbenzene	0.25	
142-28-9	1,3-Dichloropropane	0.25	U	135-98-8	sec-Butylbenzene	0.25	(
124-48-1	Dibromochloromethane	0.25	U	99-87-6	p-isopropyltoluene	0.25	i
106-93-4	1,2-Dibromoethane	0.25	U	104-51-8	n-Butylbenzene	0.25	i
108-90-7	Chlorobenzene	0.25	U	91-20-3	Naphthalene	0.50	1

PQL	Practical Quantitation Limit- Subject to change due to instrument sensitivity	Gasoline Range Estimated Total Petroleum Hydrocarbon	mg/L 0.20
N-	Tentatively Identified, not confirmed	Other Volatile Organics Detected	
J-	Estimated Value	(up to 10 highest peaks)	
U-	Samples analyzed for this compound but not detected		
X-	Sample not analyzed for this compound		
N3-	Estimated concentration is <pql and="">MDL</pql>	NO VOLATILE ORGANIC COMPOUNDS	

NO VOLATILE ORGANIC COMPOUNDS Elevated PQL due to matrix interference and/or sample dilution DETECTED BY GC/MS.

COMMENTS:

mg/L

Result ug/L

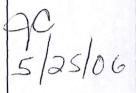
WASHINGTON REGIONAL OFFICE

NC Division of Water Quality Laboratory Section Results

Loc. Descr.: DEER PARK BOTTLED WATER Location ID: WAROAPTB Sample ID: AB04272 County: WAYNE PO Number # 6G0876 River Basin VisitID Report To WAROAP Date Received: 05/17/2006 Region: WARO Collector: C STONE Time Received: 09:00 Sample Matrix: GROUNDWATER MAY 26 2006 Labworks LoginID MMA Loc. Type: TRIP BLANK Date Reported: 05/24/2006 Sample Depth WASHINGTON REGIONAL OFFICE Collect Date: 05/16/2006

Collect Time::

10:15



Analyte Name	PQL	Result Qualifier	Units	Approved By
_AB				
Sample temperature at receipt by lab		0.4	°C	JGOODWIN
/OL				
Dichlorodifluoromethane	1.0	Not detected	ug/L	RKELLING
Chloromethane	0.50	Not detected	ug/L	RKELLING
/inyl Chloride	0.50	Not detected	ug/L	RKELLING
Bromomethane	0.50	Not detected	ug/L	RKELLING
Chloroethane	0.50	Not detected	ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected	ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methylene Chloride	10	Not detected	ug/L	RKELLING
rans-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected	ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected	ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Bromochloromethane	0.25	Not detected	ug/L	RKELLING
Chloroform	0.25	Not detected	ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected	ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected	ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected	ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected	ug/L	RKELLING
Benzene	0.25	Not detected	ug/L	RKELLING
Dibromomethane	1.0	Not detected	ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Trichloroethene	0.25	Not detected	ug/L	RKELLING
Bromodichloromethane	0.25	Not detected	ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
rans-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected	ug/L	RKELLING
Toluene	0.25	Not detected	ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Dibromochloromethane	0.25	Not detected	ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected	ug/L	RKELLING
Tetrachloroethene	0.25	Not detected	ug/L	RKELLING
Chlorobenzene	0.25	Not detected	ug/L	RKELLING
Ethylbenzene	0.25	Not detected	ug/L	RKELLING
Bromoform	1.0	Not detected	ug/L	RKELLING
m,p-Xylene	0.50	Not detected	ug/L	RKELLING
Styrene	0.25	Not detected	ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected	ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected	ug/L	RKELLING
o-Xylene	0.25	Not detected	ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected	ug/L	RKELLING
sopropylbenzene	0.25	Not detected	ug/L	RKELLING

NC Division of Water Quality Laboratory Section Results

Loc. Descr.:	DEER PARK BOTTLED WATER		
Location ID: County: River Basin Report To	WAROAPTB WAYNE WAROAP	Sample ID: PO Number # VisitID	AB04272 6G0876
Region: Collector:	WARO C STONE GROUNDWATER TRIP BLANK	Date Received: Time Received: Labworks LoginID Date Reported:	05/17/2006 09:00 MMA 05/24/2006
Collect Date:	05/16/2006 10:15		

Analyte Name	PQL	Result Qualifier	Units	Approved By
OL				
romobenzene	0.25	Not detected	ug/L	RKELLING
-Propylbenzene	0.25	Not detected	ug/L	RKELLING
-Chlorotoluene	0.25	Not detected	ug/L	RKELLING
-Chlorotoluene	0.25	Not detected	ug/L	RKELLING
3,5-Trimethylbenzene	0.25	Not detected	ug/L	RKELLING
ert-Butylbenzene	0.25	Not detected	ug/L	RKELLING
,2,4-Trimethylbenzene	0.25	Not detected	ug/L	RKELLING
ec-Butylbenzene	0.25	Not detected	ug/L	RKELLING
n-Dichlorobenzene (1,3)	0.25	Not detected	ug/L	RKELLING
-Dichlorobenzene (1,4)	0.25	Not detected	ug/L	RKELLING
-Dichlorobenzene (1,2)	0.25	Not detected	ug/L	RKELLING
-Isopropyltoluene	0.25	Not detected	ug/L	RKELLING
-Butylbenzene	0.25	Not detected	ug/L	RKELLING
,2-Dibromo-3-Chloropropane	2.0	Not detected	ug/L	RKELLING
,2,4-Trichlorobenzene	0.50	Not detected	ug/L	RKELLING
aphthalene	0.50	Not detected	ug/L	RKELLING
exachlorobutadiene	0.50	Not detected	ug/L	RKELLING
,2,3-Trichlorobenzene	1.0	Not detected	ug/L	RKELLING
OC'S BY GC/MS		Not detected	ug/L	RKELLING



GR	COUNDWATER	FIELD/LAB	FORM				Department of DIVISION OF WAT	f Environment and Natural Resources ER QUALITY-GROUNDWATER SECTION
Local Count Quad Lat Repo	ion code APSWWr iy WAYNE No Se Lo rt To: ARO, FRO, MRO, O Kinston FO, Fed, Trus	rial No RRO WaRO, Will the Central Off Off	RO,	SAMPLE TYP Water Soil Other	Purpose	SAMPLE PRIORITY Routine Emergency Baseline, Complain	Lai Da Re Ott Da Da Compliance, LUST, F	te Received 5 1 00 Time: 9.00 to Number 6 100 Time: 9.00 to Received 5 1 00 Time: 9.00 to
pH 40 Temp Appe	5.5 0.10 AO°C arance (1.5AC	Spec. Cond. ₉ ^o C Odor	4	at 25ºC	Location or S	Site 4172 A U	5 HWY 117 ALT TSIDE SPECT (F	BENATE SOLGH
IAR	Analysis By: C.STONE ORATORY ANALYSE	S			Kemarks		(Pumpir	ng time, air temp., etc.)
	BOD 310	mg/L	Diss. Solid	ís 70300	mg/L	Ag-Silver 46566	ug/L	Organochlorine Pesticides
	COD High 340	mg/L	Fluoride 9	51	mg/L	AJ-AJuminum 465		Organophosphorus Pesticides
	COD Low 335	mg/L	Hardness:	Total 900	mg/L	As-Arsenic 46551	ug/L	Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml	Hardness	(non-carb) 902	mg/L	Ba-Barium 46558	ug/L	Acid Herbicides
	Coliforn: MF Total 31504	/100ml	Phenols 3	2730	ug/l	Ca-Calcium 4655	2 mg/L	PCBs
	TOC 680	mg/L	Specific C	ond. 95	uMhos/cm	Cd-Cadmium 465	59 ug/L	
-	Turbidity 76	NTU	Sulfate 94	5	mg/L	Cr-Chromium 46!	ug/L	
	Residue, Suspended 530	mg/L	Sulfide 74	5	mg/L	Cu-Copper 46562	ug/L	
						Fe-Iron 46563	ug/L	Semivolatile Organics
			Oil and Gr	ease	mg/L	Hg-Mercury 7190	0 ug/L	TPH-Diesel Range
	pH 403	units				K-Potassium 465	55 mg/L	
	Alkalinity to pH 4.5 410	mg/L				Mg-Magnesium 4	6554 mg/L	
	Alkalinity to pH 8.3 415	mg/L				Mn-Manganese 4	6565 ug/L	Volatile Organics (VOA bottle)
	Carbonate 445	mg/L.	NH ₃ as N	610	mg/L	Na-Sodium 4655	s mg/L	TPH-Gasoline Range
	Bicarbonate 440	mg/L	TKN as N	625	mg/L	Ni-Nickel	ug/L_	TPH-BTEX Gasoline Range
	Carbon dioxide 405	mg/L	NO ₂ + NO	as N 630	mg/L	Pb-Lead 46564	ug/L	
	Chloride 940	mg/L	P: Total a	s P 665	mg/L	Se-Selenium	ug/L	
	Chromium: Hex 1032	ug/L	Nitrate (N	O ₃ as N) 620	mg/L	Zn-Zinc 46567	ug/L	
	Color: True 80	CU	Nitrite (NC	0 ₂ as N) 615	mg/L			LAB USE ONLY
	Cyanide 720	mg/L						Temperature on arrival (°C):
Lab	Comments							



GROUNDWATER FIELD/LA	B FORM	North Carolina Department of Environment and Natural Resources DIVISION OF WATER QUALITY-GROUNDWATER SECTION
Location code APSWWAYNE 2005024 County WAYNE	☑ Water ☑ Routine	Lab Number
Quad No Serial No Lat Long	(f) C-12	Date ReceivedTime:
Report To: ARO, FRO, MRO, RRO, WaRO, V WSRO, Kinston FO, Fed. Trust, Central Off., Shipped by: Bus, Courier Hand Del., Other. Collector(s): C. STONE FIELD ANALYSES	ViRO, Other: Purpose: Date 5:10:00 Time 10:15AM Baseline, Complaint, Owner DEER PACK FORDER	Other:
pH 400 Spec. Concorder Temp. 10 °C Odor Appearance Field Analysis By: LABORATORY ANALYSES	194 at 25°C Location or Site Description of sampling point Sampling Method Remarks	Sample Interval
BOD 310 mg/L COD High 340 mg/L	Diss, Solids 70300 mg/L Ag-Silver 46566 Fluoride 951 mg/L Al-Aluminum 46557	
COD Low 335 mg/L Coliform: MF Fecal 31616 /100ml	Hardness: Total 900 mg/L As-Arsenic 46551 Hardness (non-carb) 902 mg/L Ba-Barium 46558	ug/L Nitrogen Pesticides ug/L Acid Herbicides
Coliform: MF Yotal 31504	Phenols 32730 ug/l Ca-Calcium 46552 Specific Cond. 95 uMhos/cm Cd-Cadmium 4655	9 ug/L
Turbidity 76 NTU Residue, Suspended 530 mg/L	Sulfate 945 mg/L Cr-Chromium 4655: Sulfide 745 mg/L Cu-Copper 46562 Fe-Iron 46563	ug/L
	Oil and Grease mg/L Hg-Mercury 71900 K-Potassium 46555	ug/L TPH-Diesel Range
pH 403 units Alkalinity to pH 4.5 410 mg/L	Mg-Magnesium 465 Mn-Manganese 465	554 mg/L
Alkalinity to pH 8.3 415 mg/L Carbonate 445 mg/L	NH ₃ as N 610 mg/L Na-Sodium 46556	Volatile Organics (VOA bottle) mg/L TPH-Gasoline Range TPH-BTEX Gasoline Range
Bicarbonate 440 mg/L Carbon dioxide 405 mg/L	NO ₂ + NO ₃ as N 630 mg/L Pb-Lead 46564	ug/L
Chloride 940 mg/L Chromium: Hex 1032 ug/L	Nitrate (NO ₃ as N) 620 mg/L Zn-Zinc 46567	ug/L LAB USE ONLY
Color: True 80 CU Cyanide 720 mg/L	Nitrite (NO₂ as N) 615 mg/L	Temperature on arrival (°C):
Lab Comments		

GROUNDWATER FIELD/L/	AB FORM	Department of Environment and Natural Resources DIVISION OF WATER QUALITY-GROUNDWATER SECTION
County WAYNE OUT Quad No Serial No. Lat Long. Report To: ARO, FRO, MRO, RRO WaRO, WSRO, Kinston FO, Fed. Trust, Central Off. Shipped by: Bus Courier, Hand Del., Other, Collector(s): COUNTER	Water Water Other Chain of Custody WiRO, Other: Purpose: Date 5-16-06 Time 10:05 AM Bas	Routine Emergency Lab Number Date ReceivedTime: Rec'd By: From:Bus, Courier, Hand Del., Other: Data Entry By:Ck: Date Reported: Seline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: (circle one) 4173 A US HWY 117 ACTEC ATE SOCIAL Impling point OUTSIDE SPECIT (FRONT OF HOLDS)
HELD ANALYSES pH 400 5.5 Spec. Cor Temp.10 30°C °C Odor Appearance CIGAL Field Analysis By: C.STONE LABORATORY ANALYSES	at 25°C Location or Site 2 Description of sar Sampling Method Remarks	Sample Interval AFTOC 10 min FO
BOD 310 mg/L COD High 340 mg/L COD Low 335 mg/L Coliform: MF Fecal 31616 /100ml Coliform: MF Total 31504 /100ml TOC 680 mg/L Turbidity 76 NTU Residue, Suspended 530 mg/L pH 403 units Alkalinity to pH 4.5 410 mg/L Alkalinity to pH 8.3 415 mg/L	Diss. Solids 70300 mg/L Fluoride 951 mg/L Hardness: Total 900 mg/L Hardness (non-carb) 902 mg/L Phenols 32730 ug/l Specific Cond. 95 uMhos/cm Sulfate 945 mg/L Sulfide 745 mg/L Oil and Grease mg/L	Ag-Silver 46566 ug/L Al-Aluminum 46557 ug/L As-Arsenic 46551 ug/L Ba-Barium 46558 ug/L Ca-Calcium 46552 mg/L Cr-Chromium 46559 ug/L Cu-Copper 46562 ug/L Fe-Iron 46563 ug/L K-Potassium 46555 mg/L Mg-Magnesium 46554 mg/L Mn-Manganese 46565 ug/L Volatile Organics (VOA bottle)
Carbonate 445 mg/L Bicarbonate 440 mg/L Carbon dioxide 405 mg/L Chloride 940 mg/L Chromium: Hex 1032 ug/L Color: True 80 CU Cyanide 720 mg/L Lab Comments	NH ₃ as N 610 mg/L TKN as N 625 mg/L NO ₂ + NO ₃ as N 630 mg/L P: Total as P 665 mg/L Nitrate (NO ₃ as N) 620 mg/L Nitrite (NO ₂ as N) 615 mg/L	Na-Sodium 46556 mg/L Ni-Nickel ug/L Pb-Lead 46564 ug/L Se-Selenium ug/L Zn-Zinc 46567 ug/L LAB USE ONLY Temperature on arrival (°C):

North Carolina

promber (util) Justaclo, d Frs Mark

REQUEST FOR INVESTIGATION (RFI)

<u>Check List for Request for Investigation Submission:</u> Verify that the RFI package contains the following applicable items. in processing of RFI package.	Incomplete submittals will cause delays
Forms: Transmittal memo from/through Regional Supervisor to Completed Request for Investigation form and checklist Pollution Incident Reporting Form (PIRF) Site Health and Safety Planning Form Signed Land Use Agreements (LUA) for properties to be in Documentation of RFI Planning Meeting (brief summary, 1985)	ncluded in the investigation
Division of Responsibility: Develop Scope of Work	
Maps*: □ Local site/area map showing affected properties with own and proposed drilling locations (county tax map or an aerial hand drawn map is acceptable). □ Include written directions to site from a nearby well know □ Regional map showing directions to site from main highwof the following: USGS 7.5′ quad, DOT county road map, No □ Directions, phone number, and location map for the neare * Combine maps where possible and appropriate	I photo are preferred, although a neatly on landmark or primary road intersection ray or other major artery (please use one C Atlas & Gazetteer 1:150,000 scale map
Supporting Information: Laboratory report(s) of previous sampling and testing Well construction records of existing monitoring wells Well construction data for affected private supply wells (to depth, screened interval(s), well logs, etc.) References to existing investigations, reports, etc, Other supporting information available in the Regional Of (please list):	
Signature of person verifying review and completeness of attached	RFI package:

Signature_

MEMORANDUM

TO:

Inactive hazardous Waste Branch

Raleigh

FROM:

Rose Ballance, UST Section

Washington RO

RE:

Project Transfer

Perry/Young Property Dudley, Wayne County Non-UST Incident 87189

DATE:

February 19, 2008





Attached is our file for the above project. I understand that Mike Cunningham from the DWQ has forwarded a draft report to you some time ago. The draft report documents a groundwater assessment project conducted by DWQ at the above site during May of 2006. The incident is being transferred to you because the only contaminant found during the investigation is a chlorinated solvent (PCE).

If you have questions, please give me a all at 252-948-3949

Subject: Perry/Young Property Incident #87189 From: John Walch <John.Walch@ncmail.net> Date: Mon, 25 Feb 2008 16:04:39 -0500

To: Rose Ballance < Rose. Ballance@ncmail.net>

Rose-

I have received the file that you forwarded to our office on 2/19/08 for the Perry/Young Property in Dudley, Wayne Co. Your cover memo references a "draft report" that was forwarded to our office by Mike Cunningham of the DWQ. I have been unable to locate this report in the information forwarded to our Branch by DWQ since the reorganization. Do you have a copy of this report that you could send me?

Thanks
John Walch

John W. Walch
Eastern Unit Supervisor
NC Division of Waste Management
Superfund Section
(919) 508-8485
email: John.Walch@ncmail.net

Subject: Re: Perry/Young Property Incident #87189 **From:** Rose Ballance <Rose.Ballance@ncmail.net>

Date: Mon, 25 Feb 2008 16:11:01 -0500 To: John Walch <John.Walch@ncmail.net>

John,

I have never received a copy of the draft report. Mike Cunningham would hopefully be able to help you.

Rose

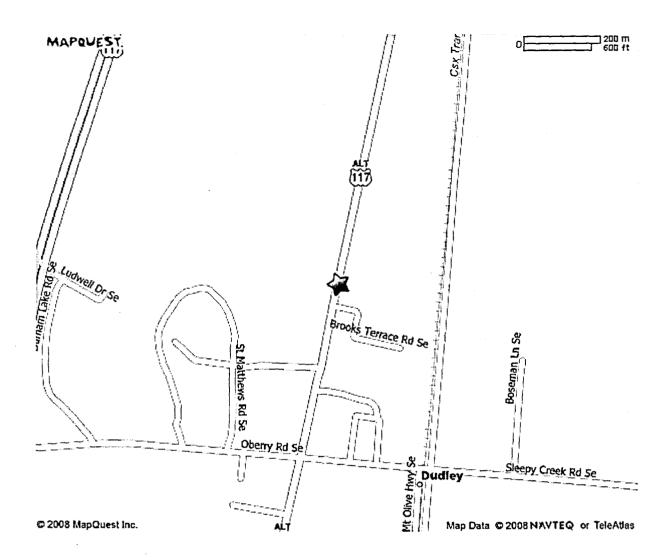
John Walch wrote:

Rose-

I have received the file that you forwarded to our office on 2/19/08 for the Perry/Young Property in Dudley, Wayne Co. Your cover memo references a "draft report" that was forwarded to our office by Mike Cunningham of the DWQ. I have been unable to locate this report in the information forwarded to our Branch by DWQ since the reorganization. Do you have a copy of this report that you could send me?

Thanks John Walch

CERCLA Site Assessment State NPL/DOD NPL/DOD Dry Cleaners Site Name: Perry/Young Site Investigation ID Number: Street Address: 4172 US 117 South Alternate City: Dudley County: Wayne	MGP	Program:	<u>IP NOTIFICATION AN</u>	<u>D AUTHORIZATIO</u>	N FORM Section No. 2.4 Revision No. 12 Date: 8-25-05	
Site Name: Perry/Young Site Investigation ID Number: Street Address: 4172 US 117 South Alternate City: Dudley County: Wayne Date(s) of Trip	Trip Canceled: Trip Rescheduled (Date): (if sampling, check appropriate boxes below) Groundwater (bailers) Groundwater (pumps) Surface Water Sediment Assistant Assistant Assistant Ryan Locklear Industrial Hygienist Signature	CERCLA Site Assessm	nent	Ħ	Page 2 of 2	
ID Number: Street Address: 4172 US 117 South Alternate City: Dudley County: Wayne Date(s) of Trip Trip Canceled: Trip Rescheduled (Date): 6/16-27/08 Trip Canceled: Trip Rescheduled (Date): 6/16-27/08 Groundwater (bailers) Surface Soil Groundwater (bailers) Using Augers/Shovels to collect soil Surface Water Using Little Beaver to collect soil Sediment Groundwater (from tap) Project Team Leader Assistant Assistant Assistant Sean Boyles Ryan Locklear Authorized By: Industrial Hygienist Signature County Health Department Official Contact: Title: Phone Number: (72 US 117 South Alternate Idley Trip Canceled: Trip Rescheduled (Date): (if sampling, check appropriate boxes below) Groundwater (bailers) Groundwater (pumps) Surface Water lect soil Sediment Assistant Assistant Assistant Ryan Locklear Industrial Hygienist Signature	NPL/DOD		Dry Cleaners		
Street Address: 4172 US 117 South Alternate City: Dudley County: Wayne Date(s) of Trip	Trip Canceled: Trip Rescheduled (Date): (if sampling, check appropriate boxes below) Groundwater (bailers) Groundwater (pumps) Sollect soil Assistant Assistant Ryan Locklear Industrial Hygienist Signature	Site Name:	Perry/Young Site Investig	gation		
City: Dudley County: Wayne Date(s) of Trip	Trip Canceled: Trip Rescheduled (Date): (if sampling, check appropriate boxes below) Groundwater (bailers) Groundwater (pumps) Sourface Water Sediment Assistant Assistant Assistant Ryan Locklear Industrial Hygienist Signature	ID Number:				
Date(s) of Trip Date(s) of Trip	Trip Canceled: Trip Rescheduled (Date): (if sampling, check appropriate boxes below) Groundwater (bailers) Groundwater (pumps) Surface Water Sediment Assistant Assistant Assistant Ryan Locklear Industrial Hygienist Signature	Street Address:	4172 US 117 South Alter	mate		
Date(s) of Trip 6/16-27/08 Reason For Trip: (if sampling, check appropriate boxes below) Surface Soil Subsurface Soil Groundwater (bailers) Using Augers/Shovels to collect soil Groundwater (from tap) Project Team Leader Assistant Assistant Assistant Assistant Assistant Authorized By: Industrial Hygienist Signature Office Use Only County Health Department Official Contact: Title: Phone Number: Health Department Official Contacted: Back Up Letter Required?: Yes _ No	Trip Canceled: Trip Rescheduled (Date): (if sampling, check appropriate boxes below) Groundwater (bailers) Groundwater (pumps) Surface Water lect soil Sediment Assistant Assistant Assistant Ryan Locklear Industrial Hygienist Signature	City:	Dudley			
Reason For Trip: (if sampling, check appropriate boxes below) Surface Soil Subsurface Soil Using Augers/Shovels to collect soil Groundwater (pumps) Sufface Water Using Little Beaver to collect soil Groundwater (from tap) Project Team Leader Assistant Assistant Assistant Assistant Authorized By: Industrial Hygienist Signature Office Use Only County Health Department Official Contact: Title: Phone Number: Health Department Official Contacted: Back Up Letter Required?: Yes _ No	(if sampling, check appropriate boxes below) Groundwater (bailers) Groundwater (pumps) Surface Water Sediment Assistant Assistant Ryan Locklear Industrial Hygienist Signature	County:	Wayne			
Surface Soil	Groundwater (bailers) Groundwater (pumps) Surface Water Sediment Assistant Assistant Assistant Assistant Assistant Ryan Locklear Industrial Hygienist Signature	Date(s) of Trip 6/16-27/08	Trip Cancele	ed: T	rip Rescheduled (Date):	
Surface Soil Subsurface Soil Using Augers/Shovels to collect soil Using Little Beaver to collect soil Groundwater (from tap) Project Team Leader Assistant Groundwater (from tap) Project Team Leader Assistant Groundwater (from tap) Authorized By: Industrial Hygienist Signature Office Use Only County Health Department Official Contact: Title: Phone Number: Health Department Official Contacted: Back Up Letter Required?: Yes No	Groundwater (bailers) Groundwater (pumps) Surface Water Sediment Assistant Assistant Assistant Assistant Assistant Ryan Locklear Industrial Hygienist Signature	Reason For Trip:				
Authorized By: Industrial Hygienist Signature	Ryan Locklear Industrial Hygienist Signature	Using Augers/Shovels Using Little Beaver to Groundwater (from tap	p)	Groundwater (pum) Surface Water Sediment	ps)	
Industrial Hygienist Signature Office Use Only County Health Department Official Contact: Title: Phone Number: Health Department Official Contacted: Back Up Letter Required?: Yes No				Assistant	Assistant	
County Health Department Official Contact: Title: Phone Number: Health Department Official Contacted: Back Up Letter Required?: Yes No	# #TT100 # IKO # \$44144	Authorized By:			re	
Title: Phone Number: () Health Department Official Contacted: Back Up Letter Required?: Yes No		 County Health Depar		Use Only		
-	Title:	Phone Number:	Title:			
Notes:	Dack Op Letter Required?: Yes _ No _			Back Up Letter Required?: Yes I		
		Notes:				



Report to:

DIVISION OF WASTE MANAGEMENT - SUPERFUND SECTION

NC DENR/DWQ LABORATORY (check one): [□] CENTRAL [□] ARO [□] WaRO

Page

of

INACTIVE SITES BRANCH CHAIN OF CUSTODY RECORD

For Investigati	on of: O	Reside						Incident I	vo. 87538	\$
	or (print name) (Sen Ba	males		D	OR/L			V 100	
					e: //	gov				
Field storage co	onditions and locat	tion (when app	licable):							
Lab Use Only								DATE	TIME	NUMBER OF
LAB NO.	SAMPLE ID	QUAD. NO		LOCATION				SAMPLED	SAMPLED	CONTAINERS
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DIVISION OF WATER QUALITY Aquifer Protection Section

July 3, 2006

MEMORANDUM:

TO:

Ted Bush, Chief Aquifer Protection Section, Central Office

Through:

David May, Supervisor Aquifer Protection Section DLM

Washington Regional Office

FROM:

Rose Ballance, Hydrogeologist Aquifer Protection Section

Washington Regional Office

SUBJECT:

Request for Investigation - Final

Perry/Young Property

4172 US Hwy 117 Alternate South, Dudley, Wayne County

Site Ranking: 75/B

Incident Number 87489

Attached is the final request for a subsurface investigation to identify the source of MtBE contamination impacting a residential supply well at the above location (Perry Residence) and assist with determining the responsible party.

MtBE (at a concentration of 0.8 μ g/L) was detected in a water sample collected from the well in late August 2005 by Wayne County Environmental Health Department staff. MtBE was again detected, at the same concentration, in a water sample collected by WaRO staff on September 27, 2005 and in a sample collected on April 6, 2006 by the NCDHHS (data provided by Mr. Perry). APS resampled the well on May 11, 2006 for VOCs and metals. No VOCs were detected above the laboratory reporting limits. Metals concentrations were below the 2L standards. Laboratory reports for the two most recent sampling events are attached. The results have been sent to Ken Rudo, toxicologist, for evaluation. A copy of the submittal memo is attached.

The Perry Residence is almost completely surrounded by a vehicle salvage facility. The facility (Young's Auto Center & Salvage) occupies about 90 acres of land and is considered a potential source of the contamination. Of particular concern is a parts cleaning area, located adjacent to Mr. Perry's property. The area is topographically (and likely hydrologically) upgradient of Mr. Perry's property and supply well. Alternatively, contamination may have occurred in the past when, according to salvage yard employees, Mr. Perry engaged in lawn mower repairs on his property. A site visit was conducted by APS personnel (Mike Cunningham, Carrie Stone, and Rose Ballance) on May 11, 2006.

To identify the source of contamination and responsible party, APS is proposing five Geoprobe borings. The investigation will be confined to Mr. Perry's property as we have not received an access agreement from Young's Auto Center. A planning meeting was conducted between Mike Cunningham and Rose Ballance on June 22, 2006. Although concentrations have been below the 2L standard, further investigation is requested to confirm whether a much larger problem exists.

If you have any questions, please call me at 252-948-3949.

Attachments

REQUEST FOR INVESTIGATION (RFI)

¹ Incident/Project name: PERRY / YOUNG PROPERTY	² Incident Number: 87538
³ Region/County:	⁴ Site Ranking:
WASHINGTON/WAYNE	75/B
⁵ Address/Location: 4172 South US 117 Alternate Dudley, NC 28333	⁶ USGS 7.5' Quadrangle Name and Site Latitude & Longitude: Goldsboro SW QUADRANGLE 35 16 46.8 N, 78 02 28.7 W
⁷ Regional Office Contact:	⁸ Date submitted:
Rose Ballance	July 3, 2006

9 RFI Planning Meeting(s)*:

- (1) Site visit conducted on May 11, 2006.
- (2) Conference call with Mike Cunningham on June 22, 2006.

In late August 2005 Wayne County Environmental Health Department staff sampled a water supply well at the Perry residence for volatile organics. The samples had 0.8 ppb MtBE. MtBE was detected at the same concentration in a follow-up sample collected by WaRO staff on September 27, 2005. The Perry residence is almost completely surrounded by land owned by Ricky Young who uses the property for an Auto Center and Salvage yard. An investigation is requested to identify the source of the contamination and the responsible party. Although the detected presence of MtBE is below the 2L groundwater standard, identification of the source area is warranted to confirm whether a much larger problem exists.

The well was resampled on April 6, 2005 by the NC DHHS (data provided by Mr. Perry) and on May 11, 2006 by APS. Both samples were analyzed for VOCs. The sample collected by APS was also analyzed for metals. The sample collected by DHHS had MtBE at a concentration of 0.8 ppb. VOCs were not detected in the sample collected by APS. Metals concentrations were below the 2L standards. Analytical results for the two most recent sampling episodes are attached. Data sheets have been sent to the toxicologist (Ken Rudo) for evaluation. A copy of the submittal memo is attached.

¹¹ How will implementation of the proposed Investigation help identify the Responsible Party or resolve the issue(s) listed in #10 above?

Implementation of the proposed investigation should provide information as to the source of the contamination in Mr. Perry's well and to determine if contaminant concentrations are higher in other areas. Mr. Perry has noticed surface run-off onto his property from a parts cleaning area that borders his property. The parts cleaning area is topographically (and likely hydrologically) upgradient of Mr. Perry's property and supply well. According to salvage yard employees, Mr. Perry has in the past engaged in lawn mower repair on his property.

12 Attach a Site Location Map (combine with other map(s) if appropriate). Attached.

¹⁰ What event(s) or groundwater issue(s) necessitated this Request for Investigation?

REQUEST FOR INVESTIGATION (RFI)

13 DRILLING INFORMA	TION				
^{13a} Proposed drilling meth		13b Estimated depth to bedrock or first confining unit: ~72 '			
^{13c} Proposed decontamina relocated, depending from		^{13d} Estin	nated depth to ground	iwater: ~?'	
^{13e} Proposed disposal faci None proposed	lity for contaminated w	13f Source of clean drilling/decon water: Sheriff's office at 126 Oberry Road, Dudley. Phone: 919-705-6541. Call ahead of time. There is a spigot at the facility; need to bring hose. If necessary, call Kevin Whitley with the Wayne County Health Department at 919-222-7946.			
^{13g} Proposed Well Number	13h Proposed Depth	¹³ⁱ Propose Diameter		13j Construction and C	Completion
Five; proposed locations are shown on the attached map.		N/A. Use screen samp vith grout.	ler. Backfill		
				· · · · · · · · · · · · · · · · · · ·	
13k Attach a map showing attached	proposed drilling loca	tions: (combine	with othe	er maps where approp	oriate)
¹⁴ PROPERTY OWNER	 F				
14a Name:	14b Address:			^{14c} Phone Number:	LUA?

¹⁴ PROPERTY OWN 14a Name:	14b Address:	14c Phone	14d
		Number:	LUA?
Johnnie Perry	4172-A US Hwy 117 South Alternate	919-734-8455	Yes
Ricky Young	4172 US Hwy 117 South Alternate	919-631-7979	No
			

^{14e} Attach a map identifying property owners. *(combine with other maps where appropriate*); see map attached to preliminary request.

REQUEST FOR INVESTIGATION

15 HEALTH AND SAFETY INFORMATION (please provide only site-specific information) 15a Chemical exposure potential (on-site chemical storage, drums, pesticides, fuel tanks, etc.): None observed. 15b Type of Contamination Expected (list substances or compounds, if known): Petroleum constituents, particularly MtBE (detected in three of four samples collected from the supply well at a concentration of 0.8 ppb). MtBE was not detected in the fourth (and last) sample, collected on May 11, 2006. ^{15c} Site Specific Issues or Concerns (access, noise, general hazards, utilities, traffic, etc.): This is a private residence, and there are no access and traffic concerns, other than coordinating with the property owner. Overhead power line is likely present. General hazards include slips, trips, falls, heat exposure. The driller should contact the utility for a mark-out of onsite utilities. 15d Biological exposure potential (on-site poisonous plants and animals, other wild animals, etc.): Primary exposure hazard: ticks, mosquitoes. Possibly snakes, spiders, and poisonous plants. 15e Required safety equipment: Modified Level D R Gloves nitrile & Hard hat ☑ PID/OVA Other (specify) ^{15f} Physical/electrical/radiological exposure potential (on-site power lines, open ditches or trenches, water bodies, heavy traffic, farm machinery, temperature extremes, etc.): Onsite power line is likely present. No open ditches, trenches, or water bodies are the area to be investigated. No heavy traffic or farm machinery. High temperatures and high humidity are expected. 159 Name and address of nearest hospital: Wayne Memorial Hospital 2700 Wayne Memorial Drive Goldsboro, NC 27534 Map attached 15h Emergency facility phone number: emergencies 911, non-emergencies (919) 736-1110 911 service available: yes

¹⁵ⁱ Attach a map indicating location and route to nearest hospital: attached

REQUEST FOR INVESTIGATION

^{15j} Health and Safety Plan Site Meeting Sign-Off Sheet				
Signature	Date			
	1			

REQUEST FOR INVESTIGATION

¹⁶ ADDITIONAL INFORMATION (Site description, site specific issues, narrative, etc.)

REQUEST FOR INVESTIGATION (RFI)

Check	List	for	Request	for	Invest	tioati	on	Submi	ission:
W110016			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		41114				

Verify that the RFI package contains the following applicable items. Incomplete submittals will cause delays in processing of RFI package.

EΛ	rm	
гυ	ш	15.

- R Transmittal memo from/through Regional Supervisor to Central Office requesting the investigation
- R Completed Request for Investigation form and checklist
- □ Pollution Incident Reporting Form (PIRF)
- Site Health and Safety Planning Form
- ☐ Signed Land Use Agreements (LUA) for properties to be included in the investigation (attached to draft RFI).
- □ Documentation of RFI Planning Meeting (brief summary, time, date, personnel present, etc.).

 Discussed in final RFI form.

Division of Responsibility:

Develop Scope of Work	Region	Central
Secure Land Use Agreements	□ Region	 Central
Coordinate with Driller	□ Region	□ Central
Perform Preliminary Site Visits	Region	Central
GPS and/or Survey	□ Region	 Central
Evaluate Data	Region	Central
Perform Draft Project Report	□ Region	 Central
Review Project Report	□ Region	 Central
Finalize Project Report	□ Region	Central

Maps*:

- ELOCAL site/area map showing affected properties with owner's name(s), location of existing well(s), and proposed drilling locations (county tax map or an aerial photo are preferred, although a neatly hand drawn map is acceptable).
- □ Include written directions to site from a nearby well known landmark or primary road intersection.

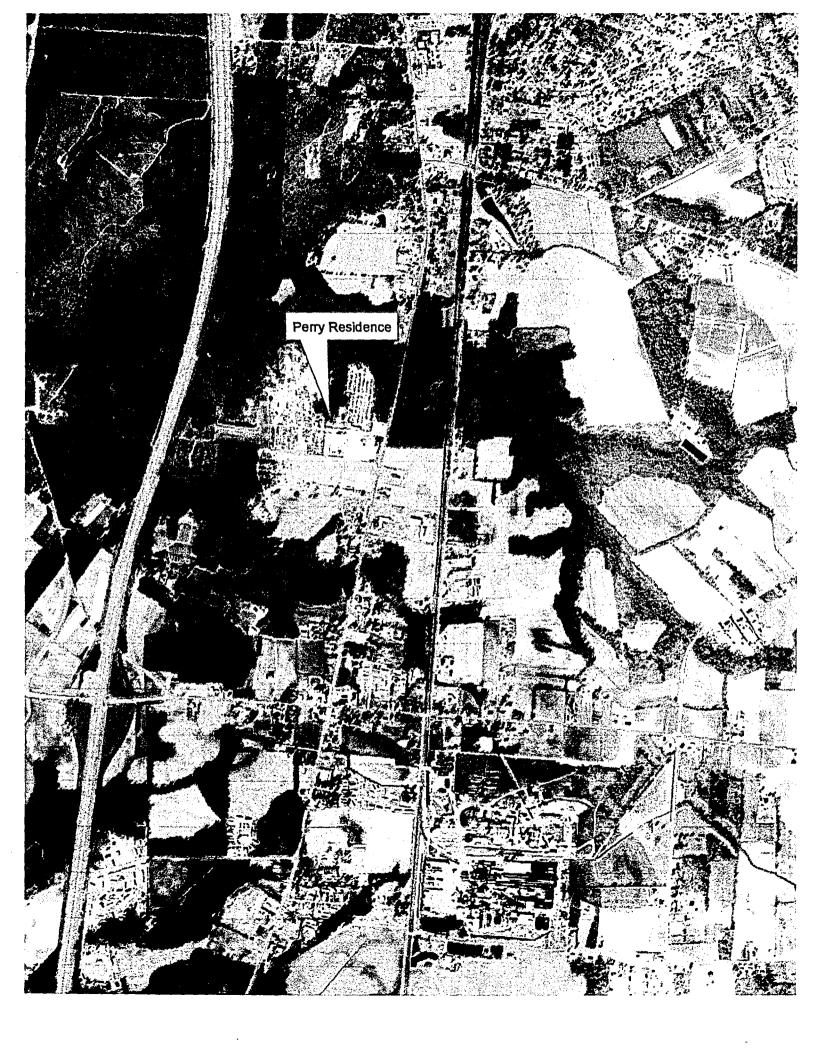
 Regional map showing directions to site from main highway or other major artery (please use one of the following: USGS 7.5′ quad, DOT county road map, NC Atlas & Gazetteer 1:150,000 scale map)

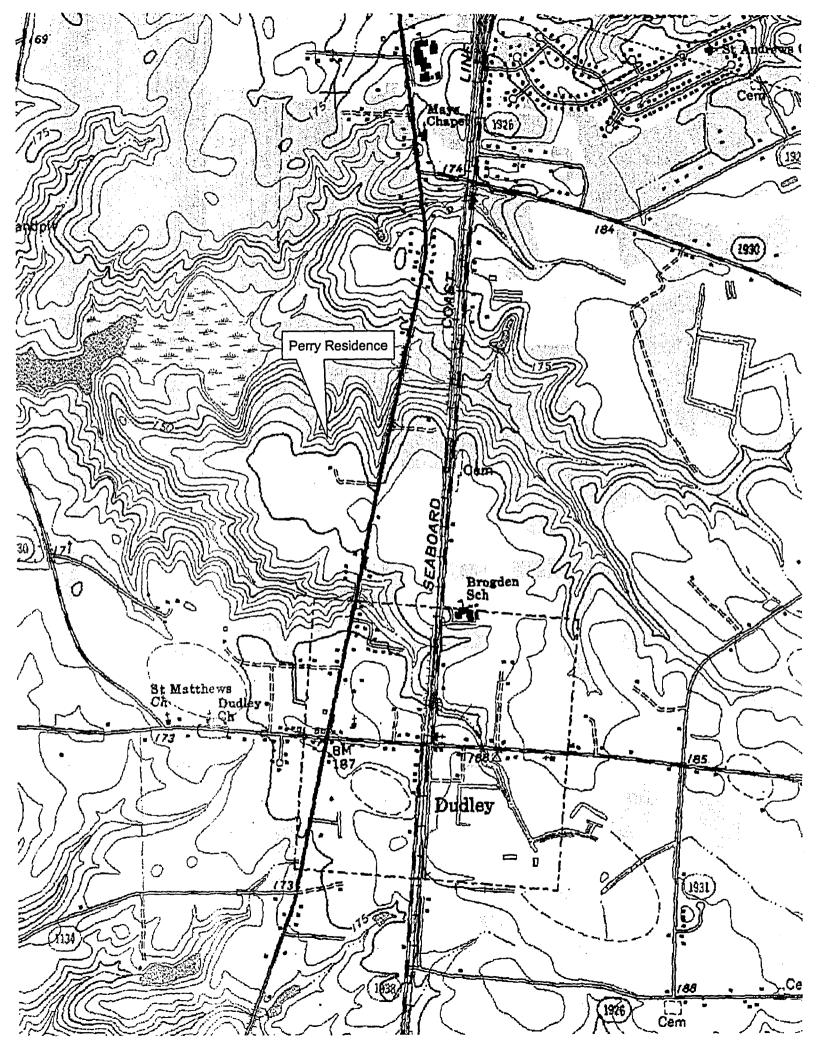
 Directions, phone number, and location map for the nearest hospital
- * Combine maps where possible and appropriate

Supporting Information:

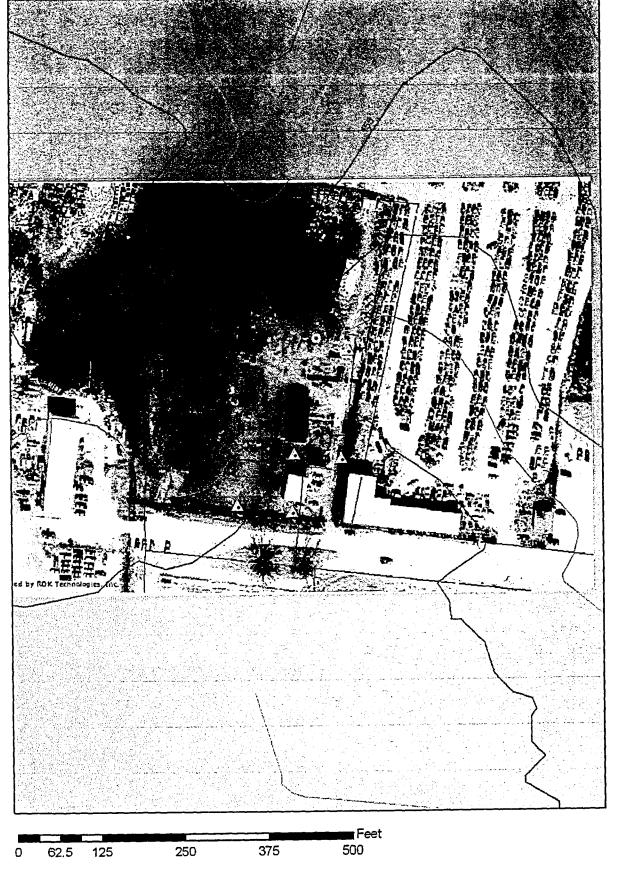
- A Laboratory report(s) of previous sampling and testing
- □ Well construction records of existing monitoring wells
- □ Well construction data for affected private supply wells (type, installation date, total depth, casing depth, screened interval(s), well logs, etc.)
- References to existing investigations, reports, etc,
- □ Other supporting information available in the Regional Office but not included in this RFI package (please list):

(please list):		
Signature of person verifying review and completeness of attached RFI pack	age:	
Signature of person verifying review and completeness of attached RFI packs	Date	7-3-2006
Signature		





Perry/Young Site





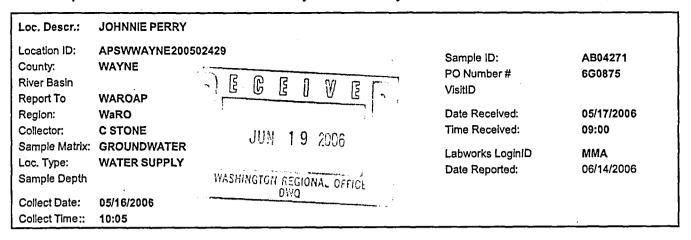
NC Division of Water Quality Laboratory Section Results

Loc. Descr.: JOHNNIE PERRY Location ID: **APSWWAYNE200502429** Sample ID: AB04271 County: WAYNE PO Number# 6G0875 River Basin VisitID Report To WAROAP Date Received: 05/17/2006 Region: WaRO Time Received: 09:00 Collector: **C STONE** Sample Matrix: GROUNDWATER Labworks LoginID MMA WATER SUPPLY Loc. Type: 06/14/2006 JUN 19 2006 Date Reported: Sample Depth Collect Date: 05/16/2006 WASHINGTON REGIONAL OFFICE Collect Time:: 10:05

7C 6/15/06

Analyte Name	PQL	Result	Qualifier	Units	Approved By
AB					
ample temperature at receipt by lab		0	.4	*C	JGOODWIN
MET					
g by ICPMS	5.0	5	ט ס.	ug/L	ESTAFFORD
I by ICP	50	100	00	ug/L	ESTAFFORD
s by ICPMS	5.0	5	.0 U	ug/L	ESTAFFORD
a by ICP	10	28	30	ug/L	ESTAFFORD
a by ICP	0.10	1	.3	mg/L	ESTAFFORD
d by ICPMS	2.0	2	.0 U	ug/L	ESTAFFORD
or by ICPMS	25	2	25 U	ug/L	ESTAFFORD
tu by ICPMS	2.0	10	00	ug/L	ESTAFFORD
e by ICP	50	29	90	ug/L	ESTAFFORD
lg 245.1	0.2	0.7		ug/L	ESTAFFORD
by ICP	0.10	2	.5	mg/L	ESTAFFORD
1g by ICP	0.10		.0	mg/L	ESTAFFORD
In by ICPMS	10	!	55	ug/L	ESTAFFORD
la by ICP	0.10		.5	mg/L	ESTAFFORD
li by ICPMS	10		10 U	ug/L	ESTAFFORD
Pb by ICPMS	10		10 U	ug/L	ESTAFFORD
Se by ICPMS	5.0		.0 U	ug/L	ESTAFFORD
In by ICP	10		29	ug/L	ESTAFFORD
/OL					
Dichlorodifluoromethane	1.0	Not detect		ug/L	RKELLING
Chloromethane	0.50	Not detect		ug/L	RKELLING
/inyl Chloride	0.50	Not detect	ed	ug/L	RKELLING
Bromomethane	0.50	Not detect		ug/L	RKELLING
Chloroethane	0.50	Not detect		ug/L	RKELLING
Frichlorofluoromethane	0.50	Not detect		ug/L	RKELLING
,1-Dichloroethene	0.25	Not detect	ed	ug/L	RKELLING
Methylene Chloride	10	Not detect		ug/L	RKELLING
rans-1,2-Dichloroethene	0.25	Not detect	ed	ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detect	ed	ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detect	ed	ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detect	ed	ug/L	RKELLING
Bromochloromethane	0.25	Not detect	ed	ug/L	RKELLING
Chloroform	0.25	Not detect	ed	ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detect	ed	ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detect	ed	ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detect	ed	ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detect	ed	ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detect	ed	ug/L	RKELLING
Benzene	0.25	Not detec	ted	ug/L	RKELLING
Dibromomethane	1.0	Not detec	ted	ug/L	RKELLING
1,2-Dichloropropane	0:25	Not detec	ted	ug/L	RKELLING
Trichloroethene	0.25	Not detec	ted	ug/L	RKELLING

NC Division of Water Quality Laboratory Section Results



ss-1,3-Dichloropropene	0.25 0.25 0.25 0.25	Not detect Not detect Not detect		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25 0.25 0.25	Not detect		•	RKELLING
• •	0.25 0.25	- · · -	ed	**	
	0.25	Not detect		ug/L	RKELLING
rans-1,3-Dichloropropene			ed	ug/L	RKELLING
1,1,2-Trichloroethane		Not detect	ed	ug/L	RKELLING
Toluene	0.25	Not detect	ed	ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detect	ed	ug/L	RKELLING
Dibromochloromethane	0.25	Not detect	ed	ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detect	ed	ug/L	RKELLING
Tetrachloroethene	0.25	Not detect	ed	ug/L	RKELLING
Chlorobenzene	0.25	Not detect	ed	ug/L	RKELLING
Ethylbenzene	0.25	Not detect	ed	ug/L	RKELLING
Bromoform	1.0	Not detect	ed	ug/L	RKELLING
m,p-Xylene	0.50	Not detect	ed	ug/L	RKELLING
Styrene	0.25	Not detect	ed	ug/L	RKELLING
1,1,2,2-Tetrachioroethane	0.25	Not detect	ed	ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detect	ed	ug/L	RKELLING
p-Xylene	0.25	Not detect	ed	ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detect	ed	ug/L	RKELLING
Isopropylbenzene	0.25	Not detect	ed	ug/L	RKELLING
Bromobenzene	0.25	Not detect	ed	ug/L	RKELLING
n-Propylbenzene	0.25	Not detect	eđ	ug/L	RKELLING
2-Chlorotoluene	0.25	Not detect	ed	ug/L	RKELLING
4-Chlorotoluene	0.25	Not detect	ed	ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detect	ed	ug/L	RKELLING
tert-Butylbenzene	0.25	Not detect	ed	ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detect	ed	ug/L	RKELLING
sec-Butylbenzene	0.25	Not detect	ed	ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detect	ted	ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detect	ed	ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detect		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detec		ug/L	RKELLING
n-Butylbenzene	0.25	Not detec		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detec		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detec	-	ug/L	RKELLING
Naphthalene	0.50	Not detec		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detec		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detec		ug/L	RKELLING
VOC'S BY GC/MS	1.0	Not detec		ug/L	RKELLING

Course Blank Helicological in 1986. VOT VINE COMMIT 1:1 HCL

N.C. Department of Health and Human Services Division of Public Health

State Laboratory of Public Health

PETROLEUM PRODUCTS

P.O. Box 28047, 306 N. Wilmington St., Raleigh, NC 27611-8047

Environmental Sciences Analysis Report

Name of Owner, Pati Or Supply:	117 ALL.	· · · · · · · · · · · · · · · · · · ·	Y
301 No		Collected By: Shannon Jennin Telephone # (<u>gs</u>
Laboratory Number	Sample #	Analysis Desired: Sample Description or Remarks	Results In
050831		RIP BLANK (DATE: 93-30-16) SEE ATTACHE	ED SHEET(S)
Date Received: API Date Extracted:	R 07 2006	Date Reported: APR 20 2006 PT/BC/MS Date Analyzed: 4-11-06 M Reported By: DaluA. Juliu	1-19-DGM

DIVISION OF HEALTH AND HUMAN SERVICES STATE LABORATORY OF PUBLIC HEALTH PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

Purgeable Organic Compounds by Gas Chromatography/Mass Spectrometry

LABORATORY #_ 060630

COMPOUND	MDL	μg/L	COMPOUND	MDL	μg/L
Chloromethane	2.0 μg/L	11	1,2-Dichloropropane	0.5 μg/L	u
Vinyl Chloride	2.0 μg/L		Dibromomethane	0.5 μg/L	
Bromomethane	2.0 μg/L		Bromodichloromethane	0.5 μg/L	
Chloroethane	2.0 μg/L		cis-1,3-Dichloropropene	0.5 μg/L	
Trichlorofluoromethane	2.0 μg/L		4-Methyl-2-Pentanone	0.5 μg/L	
1,1-Dichloroethene	0.5 μg/L		Toluene -	0.5 μg/L	trace
Acctone	2.0 μg/L		trans-1,3-Dichloropropene	0.5 μg/L	u
lodomethane	0.5 μg/L		1,1,2-Trichloroethane	0.5 μg/L	
Carbon Disulfide	0.5 μg/L		Tetrachloroethene	0.5 μg/L	
Methylene Chloride	0.5 μg/L		2-Hexanone	0.5 μg/L	
Acrylonitrile	0.5 μg/L		Dibromochloromethane	0.5 μg/L	
trans-1,2-Dichloroethene	0.5 μg/L	1	Ethylene Dibromide	0.5 μg/L	
Methyl-t-Butyl-Ether	0.5 µg/L	0.8	Chlorobenzene	0.5 μg/L	
1,1-Dichloroethane	0.5 μg/L	u	1,1,1,2-Tetrachloroethane	0.5 μg/L	
Isopropyl Ether	0.5 μg/L	i	Ethyl Benzene	0.5 μg/L	
cis-1,2-Dichloroethene	0.5 31g/L		Xylenes	0.5 μg/L	
2-Butanone	2.0 μg/L		Styrene	0.5 μg/L	
Tetrahydrofuran	2.0 μg/L		Bromoform	0.5 μg/L	
Chloroform	0.5 μg/L		1,1,2,2-Tetrachioroethane	0.5 μg/L	
1,1,1-Trichloroethane	0.5 μg/L		1,2,3-Trichloropropane	0.5 μg/L	
Carbon Tetrachloride	0.5 μg/L		1,4-Dichlorobenzene	0.5 μg/L	
Benzene	0.5 μg/L		1,2-Dichlorobenzene	0.5 μg/L	
1,2-Dichlorocthane	0.5 μg/L		1,2-Dibromo-3-Chloropropane	2.0 μg/L	14
Trichloroethene	0.5 μg/L				
Hemorocacac					

trace - detected, but less than MDL MDL-Minimum Detection Limit

C - Possible lab contamination or background

^{1 -} Estimated Value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.

^{1/ -} Tentative Identification.
D -Sample diluted. MDLs do not apply.

DIVISION OF HEALTH AND HUMAN SERVICES STATE LABORATORY OF PUBLIC HEALTH PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

Purgeable Organic Compounds by Gas Chromatography/Mass Spectrometry

LABORATORY# 060631
TRIP OLANK COMPOUND MDL COMPOUND μg/L MDL μg/L Chloromethane 2.0 µg/L 1,2-Dichloropropane 0.5 μg/L L レー Vinyl Chloride 2.0 µg/L Dibromomethane 0.5 µg/L Bromomethane $2.0 \mu g/L$ Bromodichloromethane 0.5 μg/L Chloroethane 2.0 µg/L cis-1,3-Dichloropropene 0.5 µg/L 2.0 µg/L Trichlorofluoromethane 4-Methyl-2-Pentanone $0.5 \, \mu g/L$ 1.1-Dichloroethene 0.5 µg/L Toluene 0.5 µg/L Acetone 2.0 µg/L trans-1,3-Dichloropropene 0.5 µg/L Iodomethane 0.5 µg/L 1,1,2-Trichioroethane 0.5 µg/L Carbon Disulfide 0.5 µg/L Tetrachloroethene 0.5 µg/L Methylene Chloride 0.5 µg/L 2-Hexanone $0.5 \, \mu g/L$ Acrylonitrile 0.5 µg/L Dibromochloromethane 0.5 µg/L trans-1,2-Dichloroethene 0.5 µg/L Ethylene Dibromide 0.5 µg/L Methyl-t-Butyl-Ether $0.5 \mu g/L$ Chlorobenzene 0.5 µg/L 1,1-Dichloroethane $0.5 \mu g/L$ 1.1.1.2-Tetrachloroethane 0.5 µg/L Isopropyl Ether $0.5 \mu g/L$ Ethyl Benzene $0.5 \mu g/L$ cis-1,2-Dichloroethene $0.5 \mu g/L$ Xylenes 0.5 µg/L 2-Butanone $2.0 \mu g/L$ Styrene $0.5 \, \mu g/L$ Tetrahydrofuran 2.0 µg/L Bromoform $0.5 \mu g/L$ Chloroform 0.5 μg/L 1,1,2,2-Tetrachlorocthane 0.5 µg/L I.I.I-Trichloroethane 0.5 µg/L 1,2,3-Trichloropropane 0.5 µg/L Carbon Tetrachloride 0.5 µg/L 1,4-Dichlorobenzene 0.5 µg/L Renzene 0.5 µg/L 1,2-Dichlorobenzene 0.5 µg/L 1,2-Dichloroethane 1,2-Dibron10-3-Chloropropane $0.5 \mu g/L$ 2.0 µg/L Trichloroethene 0.5 μg/L

trace - detected, but less than MDL MDL=Minimum Detection Limit

C - Possible lab contamination or background

- Estimated Value

- Actual value is known to be less than value given.

L - Actual value is known to be greater than value given.

U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.

- Tentative Identification.

D -Sample diluted. MDLs do not apply.

TRIP BLANK (DATE: 03-30-06)

DIVISION OF WATER QUALITY Aquifer Protection Section June 16, 2006

MEMORANDUM:

TO:

Ken Rudo, Toxicologist, Department of Health and Human Services

FROM:

Rose Ballance, Hydrogeologist, Division of Water Quality Aquifer

Protection Section, Washington Regional Office

SUBJECT:

Laboratory Results - Groundwater Well

Johnnie Perry Residence

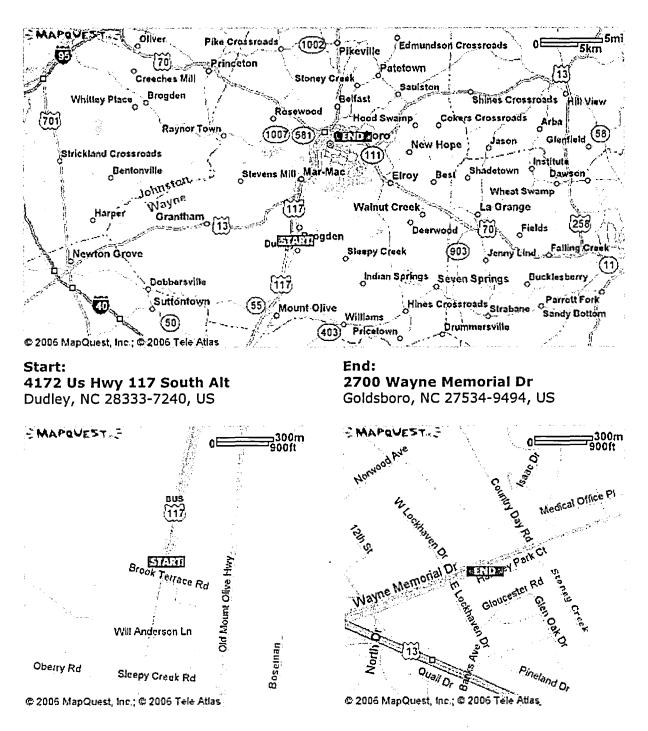
4172A US Hwy 117 Alternate South

Dudley, Wayne County

Please evaluate the attached laboratory data of groundwater samples collected from the water well at the above referenced property on May 15, 2006.

Before that date, the well was sampled three times (in August and September 2005 and in April 2006) by the Wayne County Health Department, the Aquifer Protection Section, and the Department of Health and Human Services, respectively. The samples were analyzed for volatile organic compounds. On all three occasions, methyl tert-butyl ether (MtBE) was detected at a concentration of 0.8 micrograms per liter.

If you have any questions, please call me at 252-948-3949.



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These directions are informational only. No representation is made or warranty given as to their content, road conditions or route usability or expeditiousness. User assumes all risk of use. MapQuest and its suppliers assume no responsibility for any loss or delay resulting from such use.



Start: 4172 Us Hwy 117 South Alt

Dudley, NC 28333-7240, US

2700 Wayne Memorial Dr End:

Goldsboro, NC 27534-9494, US



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Direct	ions	Distance
Total	Est. Time: 18 minutes Total Est. Distance: 11.9	95 miles
DANG	1: Start out going NORTH on US-117 ALT toward OUTLAW RD SE.	3.1 miles
117 BYP	2: Turn SLIGHT RIGHT onto US-117 BYP N.	6.8 miles
13	3: US-117 BYP N becomes US-13 N / US-70 E / DR MARTIN LUTHER KING JUNIOR EXPY / NC-111 S.	1.0 miles
RAMP	4: Take the WAYNE MEM DRIVE ramp toward WAYNE COMM COLLEGE / GOLDSBORO HIGH SCHOOL.	0.2 miles
\Leftrightarrow	5: Turn LEFT onto WAYNE MEMORIAL DR / NC-1556. Continue to follow WAYNE MEMORIAL DR.	0.5 miles
EG	6: End at 2700 Wayne Memorial Dr Goldsboro, NC 27534-9494, US	en e
Total	Est. Time: 18 minutes Total Est. Distance: 11.9	5 miles

Printer-friendly page sponsored by HP

	lanagement	Data E	entry Re	ecord
Incident Information		7/3	/2006 10:06	:54AM
the first section of the first section in the section of the secti	7538	Site I	Priority	<u>and an enset that in the application for the section of the secti</u>
<u> </u>	erry Residence/Young's	s Auto		
Incident Address 41	72 US Hwy 117 Alter	nate S.		
Incident City/Town Dr	udley	Incid	ent Zip	28333
County	ayne			
	ose Ballance			
Responsible Party Inform	mation			
RP Contact Yo	oung, Ricky			
RP Company Yo	oung's Auto Center &	Salvage		
	172 US 117 Alternate S	S.		
RP City Du	udley	RP S	State	North Carolina
	3333			
RP Phone 91	196317979			
Ownership Type Pr	rivate			
Operation Type U	nknown			
Unknown	Other Petroleum P	roducts	Private Well	がっけん さいかんちゅう かんじゅうしん かんしゅん 🎁 👅
			Private NonD	
				rinking
			Private NonD	rinking
Status Information	9/27/2005	Phase	Private NonD	rinking
Status Information Report/Discovery Date 0		Phase	Private NonD Public Well	Prinking
Status Information Report/Discovery Date 09 Notice Date			Private NonD Public Well	Prinking
Status Information Report/Discovery Date Notice Date Next Action		Phase	Private NonD Public Well Date	Prinking
Status Information Report/Discovery Date 0 Notice Date		Phase Next Due	Private NonD Public Well Date	Discovery
Status Information Report/Discovery Date 0 Notice Date		Phase Next Due	Private NonD Public Well Date	Discovery
Status Information Report/Discovery Date Notice Date Next Action CSA Received CSA Approved CSA Reviewed		Phase Next Due CAP Type CAP Rece	Private NonD Public Well Date ived ewed	Discovery
Report/Discovery Date Notice Date Next Action CSA Received CSA Approved CSA Reviewed	9/27/2005	Phase Next Due CAP Type CAP Rece CAP Revi	Private NonD Public Well Date ived ewed oved	Discovery
Status Information Report/Discovery Date Notice Date Next Action CSA Received CSA Approved CSA Reviewed Last Modified 0	9/27/2005 7/03/2006	Phase Next Due CAP Type CAP Rece CAP Revi CAP Appr	Private NonD Public Well Date ived ewed oved	Discovery
Report/Discovery Date Notice Date Next Action CSA Received CSA Approved CSA Reviewed Last Modified Locational Information	9/27/2005 7/03/2006	Phase Next Due CAP Type CAP Rece CAP Revi CAP Appr CAP Imple	Private NonD Public Well Date ived ewed oved emented	Discovery
Status Information Report/Discovery Date Notice Date Next Action CSA Received CSA Approved CSA Reviewed Last Modified 0	9/27/2005 7/03/2006	Phase Next Due CAP Type CAP Rece CAP Revi CAP Appr	Private NonD Public Well Date ived ewed oved emented (DMS)	Discovery

Comments

Wayne County Env. Health Dept. sampled water supply well at a residence owned by Mr. Johnnie Perry. Sample results indicated presence of MTBE at levels of 0.8 ppm. Aquifer Protection Section staff was notified and resampled on 9/27/2005. Results were confirmed. Requesting Field Investigation Unit assistance in determining RP. Perry Residence is located in the middle of approx. 90 acres of property owned by Ricky Young used for Young's Auto Center & Salvage. sampels collected from supply well between August 2005 and May 2006): three samples with MtBE at 0.8 ppb. Most recent sample below QL. Metals below 2L. Investion pending.

Subject: Re: Mr. Perry

From: "Mike Cunningham" <mike.cunningham@ncmail.net>

Date: Fri, 12 May 2006 13:10:54 -0400

To: "Rose Ballance" < Rose.Ballance@ncmail.net>

Rose,

I think that (from an APS perspective) the primary thing that caught my attention was the potential issue of the sump drain in the vehicle stripping & cleaning building Mr. Perry was describing. If what he was describing is true, that would constitute an illegal injection well (I spoke to Evan Kane here who until recently used to be the Underground Injection Control program & he said that if it discharges to a septic system that would be a separate issue that I think might constitute a violation under EPA regs). Also, the issue of draining the tanks on the ground I'm certain would constitute some violation of Hazardous Waste regs under DWMs Haz Waste program. I'll let you guys handle that aspect of things since that is out of my "jurisdiction" so to speak - but I'll definitely be interested to see what all is found out about the facility.

Michael Cunningham, PG Hydrogeologist NC DENR Division of Water Quality Aquifer Protection Section

(919) 715-6196 (919) 715-0588 (fax)

---- Original Message ---- From: "Rose Ballance" <Rose.Ballance@ncmail.net>
To: "Mike Cunningham" <Mike.Cunningham@ncmail.net>
Sent: Friday, May 12, 2006 11:28 AM
Subject: Mr. Perry

Hi, Mike,

I am contemplating taking a trip to the Young's Auto Center facility to check out some items that came up during our visit with Mr. Perry. Please let me know if there is anything specific you need to know or if you would like to accompany me. I have not yet called the facility.

Rose

Report of Investigation

Perry/Young Site Investigation Wayne County North Carolina

Washington Regional Office



North Carolina Department of Environment and Natural Resources Division of Water Quality Aquifer Protection Section

Prepared By:	
Michael Cunningham, PG	
Hydrogeologist I	

Executive Summary

Slightly elevated methyl-tertiary butyl ether (MTBE) concentrations were detected in a private drinking water supply well at the Johnnie Perry residence located in the town of Dudley in Wayne County, North Carolina. The area is located in upper Coastal Plain terrain adjacent to a swampy wetlands area near Durhams Lake. The Washington Regional Office (WaRO) of the North Carolina Department of Environment and Natural Resources (NC DENR) detected slightly elevated concentrations of MTBE in groundwater samples collected from a private drinking water supply well on the property. The WaRO then requested that the Aquifer Protection Section of the NC DENR's Division of Water Quality conduct an investigation to determine the source of the MTBE detected in Mr. Perry's supply well and determine if a more significant groundwater contamination problem exists at the site.

Five shallow discreet groundwater samples were collected from five GeoProbe® borings. Four of the borings (SB-1, SB-2, SB-4 and SB-5) were conducted in areas along the perimeter of the site that are generally topographically and hydraulically downgradient of a potential source (Young's Auto Center & Salvage – a large auto salvage yard) and generally topographically and hydraulically upgradient of the site and supply well. Boring SB-3 was collected between the shop on Mr. Perry's property and the Perry residence (further inside the Perry property) in order to determine if the shop could be a potential contamination source. Collected samples were analyzed for volatile organic compounds (VOCs). These groundwater samples had contaminant concentrations that ranged from non-detect for VOCs up to 2.4 ug/L of 2-methyl-1-Propene, 0.82 ug/L of Hexane, 0.73 ug/L of Methyl Cyclopentane, 1.8 ug/L of Nonanal, 4.5 ug/L of Propene, and 0.72 ug/L of Tetrachloroethene.

Based on the apparent estimated direction of groundwater flow and the results of the analysis for VOCs in collected groundwater samples, it appears that groundwater contamination in the surficial aquifer is minimal. Very low trace concentrations of the compounds listed above (most of which likely originate from automotive products including gasoline, antifreeze, etc.) were detected in several of the borings, but only one detected compound (tetrachloroethylene in boring SB-3) barely exceeded it's NCAC 2L groundwater standard of 0.7 ug/l. The location of boring SB-3 indicates that this exceedance could potentially have originated on the Perry property. Based on these results, it appears that Young's Auto Center & Salvage is likely having a minor impact on groundwater quality in the area and could potentially be the source of low levels of MTBE (well below regulatory limits) in Mr. Perry's supply well. However, there is no indication of a significant release of contamination to groundwater from operations at the salvage yard migrating onto Mr. Perry's Property.

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1. Introduction

Slightly elevated methyl-tertiary butyl ether (MTBE) concentrations, but below North Carolina 2L Groundwater Standards, were detected in water samples collected from a private drinking water supply well at the Johnnie Perry residence in Dudley in Wayne County, North Carolina. Laboratory analysis of the supply well samples indicated that MTBE was present at a concentration of 0.8 parts per billion (ppb). The site location is depicted on **Figure 1**.

1.1 Background

The location of the contaminated supply well is indicated on **Figure 2**. According to the property owner, Mr. Perry, the well is approximately 80 feet deep. The supply well was inspected by NC DENR WaRO personnel on May 11, 2006 and it appeared to be properly constructed and grouted.

The area of concern in this assessment is predominantly commercial and residential. The site is a residence and small shop located south-southeast of a swampy wetlands area that appears to generally flow north and then west/northwest towards Durham's Lake approximately 3,000 feet away. A large auto salvage facility (Young's Auto Center & Salvage) essentially surrounds much of the Perry property.

1.2 Purpose

APS?

In response to a request from the Washington Regional Office of The North Carolina Department of Environment and Natural Resources (NC DENR), an assessment of shallow groundwater in the vicinity was conducted.

The purpose of this investigation is to investigate the potential/likely source of the MTBE detected in the shallow private water supply well and determine if a larger petroleum hydrocarbon contamination problem is present. MTBE is a synthetic fuel oxygenate gasoline additive. Not infrequently, the presence of low levels of MTBE in groundwater can signal the leading edge of a much larger release of petroleum hydrocarbons. This can occur because MTBE has a much higher mobility and greater persistence in groundwater than most other petroleum hydrocarbon constituents and is usually the first petroleum hydrocarbon indicator to be detected in a groundwater receptor at a fixed distance from the release (e.g. the leading edge of a plume). (Jacobs, Guertin & Herron, 2001)

The owner of the residence (Mr. Perry) has alleged that the salvage yard has consistently been failing to properly drain the salvaged vehicles of waste fluids (including oil, gasoline, antifreeze, etc.) prior to bringing them into the yard. Mr. Perry states that he has frequently noted fluids dripping and running from junked vehicles being brought onto the salvage yard. Additionally, he alleges that the salvage yard disposes of waste fluids into an open sump that discharges into the subsurface from the building that cuts up the vehicles, which is located upgradient and immediately adjacent to his property. However, employees of the salvage yard claim that Mr. Perry has done considerable vehicle and lawnmower repair work on his own property, which could have resulted in contaminant releases that impacted his supply well. Therefore, the source of the MTBE could either be from an onsite release or from a release from an upgradient source.

NCG100182 Swolischarge

2. Investigation

To assess local groundwater quality, five soil borings were conducted and groundwater samples were collected at a discreet interval within each of the borings.

2.1 Site Conditions

The subject property is a 2.8 acre tract of land that is bounded to the east, west and south by Young's Auto Center & Salvage, a large automobile salvage yard. A low-lying swampy wetlands area is located north of the site. The site and surrounding area is depicted in **Figure 2**. The property is accessed via a gravel road south of the property that is also shared by Young's Auto Salvage. The residence and shop are located in the southeast corner of the property. A small shallow dug pond is located in the southwest corner of the property. The remainder of the Perry property is grass lawn area around the house and shop and swampy wetlands in the north and northwest portions of the property.

The Young's Auto Center & Salvage property covers approximately 90 acres, although the active salvage yard itself occupies approximately 38 acres and contains several thousand junked vehicles. The site and surrounding area generally slopes to the north and northwest towards the wetlands and creek. The elevation of the site ranges from approximately 175 feet above sea level (msl) to approximately 150 feet msl.

2.2 Regional Geology and Hydrogeology

The project site lies within the Inner Coastal Plain region of the North Carolina Coastal Plain. The Inner Coastal Plain region lies between the Tidewater region and the Fall Line and is characterized by a gently rolling land surface. Surface elevations range from about 50 feet msl near the eastern Tidewater boundary to slightly in excess of 700 feet msl near the Fall Line to the west. (Winner & Coble, 1996)

Coastal Plain sediments are generally characterized by clastic rocks ranging from clay to gravel, with lesser amounts of marine limestone, resting on crystalline basement rock. The sediment layers generally dip to the east and individual layers thicken to the east. (Winner & Coble, 1996) The site is underlain by a layer of Quaternary surficial sediments, which is in turn underlain by the Black Creek formation. The Black Creek Formation consists of gray to black lignitic clay with thin beds and laminae of finegrained micaceous sand and thick lenses of cross-bedded sand. (NCGS, 1985)

The Coastal Plain groundwater flow system consists of aquifers made up of permeable sand, gravel, and limestone layers separated by confining units composed of less permeable sediments. These units constitute the sediments described above. Based on boring log data from Division of Water Resources Hydrogeologic Framework wells (Southern Wayne Sanitary District, Georgia-Pacific Corp, Southern Wayne Country Club), a shallow unconfined surficial aquifer consisting of Quaternary age deposits approximately 70 feet thick generally overlies the deeper hydrogeologic units in this area. The deeper units appear to consist of a relatively thin Black Creek confining unit (approximately 5-10 feet thick) overlying the Black Creek aquifer, which in turn overlies the Upper Cape Fear confining unit and aquifer.

2.3 Drilling and Sample Collection

The soil borings/groundwater sample points were conducted by NC DENR personnel on July 27, 2006. The borings were completed in the surficial aquifer. Soil boring/groundwater sample locations are shown on **Figure 3**.

GeoProbe® Direct Push Technology (DPT) equipment was used to perform the soil borings. Continuous soil sampling using the MacroCore® sampler was conducted in all of the borings. Based on the samples observed from the MacroCore® tubes, soils consist of fine to medium sand, sand/silt mixtures and some thin sand/clay stringers. Once the desired sampling depth was reached, a decontaminated stainless steel sampling screen with a detachable point was advanced in the borehole and then withdrawn four feet, exposing the screen to the formation. In each boring the screened sampler was positioned approximately three feet into the apparent saturated zone so that it straddled the water table. Prior to sampling, the screened interval was pumped using dedicated disposable tubing and a Waterra® foot valve pump until the discharge was relatively clear and free of sediment or a maximum of approximately 10-15 minutes if further reduction of visual turbidity was not apparent.

2.4 Groundwater Sampling and Analytical Results

Groundwater samples were collected from the borings on July 27, 2006 soon after boring completion. Samples were collected utilizing dedicated disposable polyethylene tubing and a Waterra® foot valve pump by NC DENR personnel. Samples were placed into prepreserved VOA bottles without headspace, placed into an ice-filled cooler and transported to the DENR laboratory under Chain-of-Custody procedures. Collected samples were analyzed for Volatile Organic Compounds (VOCs). The groundwater samples had contaminant concentrations that ranged from non-detect for VOCs up to 2.4 ug/L of 2-methyl-1-Propene, 0.82 ug/L of Hexane, 0.73 ug/L of Methyl Cyclopentane, 1.8 ug/L of Nonanal, 4.5 ug/L of Propene, and 0.72 ug/L of Tetrachloroethene.

The analytical results are tabulated and presented in **Table 1**. The concentrations of VOCs in groundwater from the various borings are depicted on **Figure 3**.

3. Findings and Conclusions

Although permanent groundwater monitoring wells were not constructed and surveyed to definitively establish groundwater flow direction and gradient, it is apparent, based on topography and surficial hydrology, that groundwater flow at the subject site and vicinity should be predominantly from the topographically higher elevations (likely recharge areas) in the south-southeast to the lower elevations and surficial water bodies (discharge areas such as the wetlands) to the northwest.

Four of the soil borings (SB-1, SB-2, SB-4 and SB-5) were installed along the southern and eastern edges of the Perry property that generally appears to be the most topographically and hydraulically upgradient. The purpose of this was to establish if the low levels of contamination detected in the supply well, which is downgradient of the borings, was the leading edge of a much larger plume that would most likely originate in the surficial water table (from either an onsite or nearby offsite source of petroleum hydrocarbons).

Boring SB-3 was collected between the shop on Mr. Perry's property and the house (further inside the Perry property) in order to determine if the shop was a possible contamination source. Collected samples were analyzed for volatile organic compounds (VOCs). These groundwater samples had contaminant concentrations that ranged from non-detect for VOCs up to 2.4 ug/L of 2-methyl-1-Propene, 0.82 ug/L of Hexane, 0.73 ug/L of Methyl Cyclopentane, 1.8 ug/L of Nonanal, 4.5 ug/L of Propene, and 0.72 ug/L of Tetrachloroethene.

Based on the apparent estimated direction of groundwater flow and the results of the analysis for VOCs in collected groundwater samples, it appears that groundwater contamination of the surficial aquifer in the vicinity of the Perry property is minimal. Very low trace concentrations of the compounds listed above (most of which likely originate from automotive products including gasoline, antifreeze, etc.) were detected in several of the borings, but only one detected compound (tetrachloroethylene in boring SB-3) barely exceeded it's NCAC 2L groundwater standard of 0.7 ug/l. The location of boring SB-3 indicates that this exceedance could potentially have originated on the Perry property. Based on these results, it appears that Young's Auto Center & Salvage is likely having a minor impact on groundwater quality in the area and could potentially be the source of low levels of MTBE (well below regulatory limits) in Mr. Perry's supply well. However, there is no indication of a significant release of contamination to groundwater from operations at the salvage yard migrating onto Mr. Perry's Property.

4. References

Winner, M.D. and Coble, R.W. - Hydrogeologic Framework Of the North Carolina Coastal Plain, U.S, Geological Survey Professional Paper 1404-I, United States Government Printing Office, Washington, D.C., 1996.

North Carolina Geological Survey - Geologic Map of North Carolina, 1985.

Jacobs, James; Guertin, Jacques; Herron, Christy – MTBE: Effects on Soil and Groundwater Resources, CRC Press, 2001.

Table 1 VOC Concentrations in Groundwater Samples

Perry/Young Site

·		Way	ne County, N	orth Carolina					
COMPOUND	2L	2L SAMPLE ID							
	STANDARD	SB-1	SB-2	SB-3	SB-4	SB-5	TB-1		
2-methyl-1-Propene	NS	2.4	ND	ND	1.3	ND	ND		
Hexane	420	0.82	ND	ND	ND	ND	ND		
Methyl Cyclopentane	NS	0.73	ND	ND	ND	ND	ND		
Nonanal	NS	ND	ND	ND	1.8	ND	ND		
Propene	NS	4.5	ND	ND	1.6	ND	ND		
Tetrachloroethene	0.7	ND	ND	0.72	ND	ND	ND		

Notes:

- 1. Concentrations in μg/L
- 2. Bold entries indicate exceedences of 15A NCAC 2L Groundwater Standards
- 3. NS No Standard
- 4. ND Not Detected
- 5. TB-1 Trip Blank



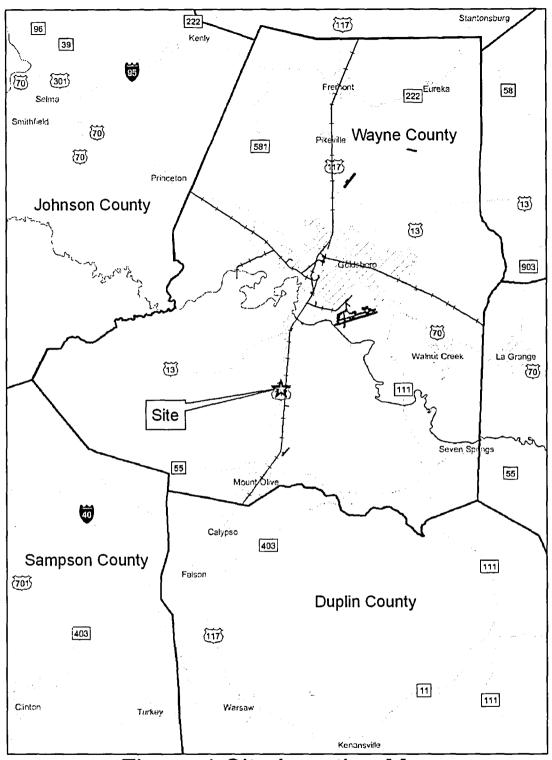
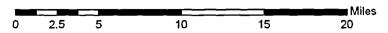


Figure 1 Site Location Map Perry/Young Site, Wayne County





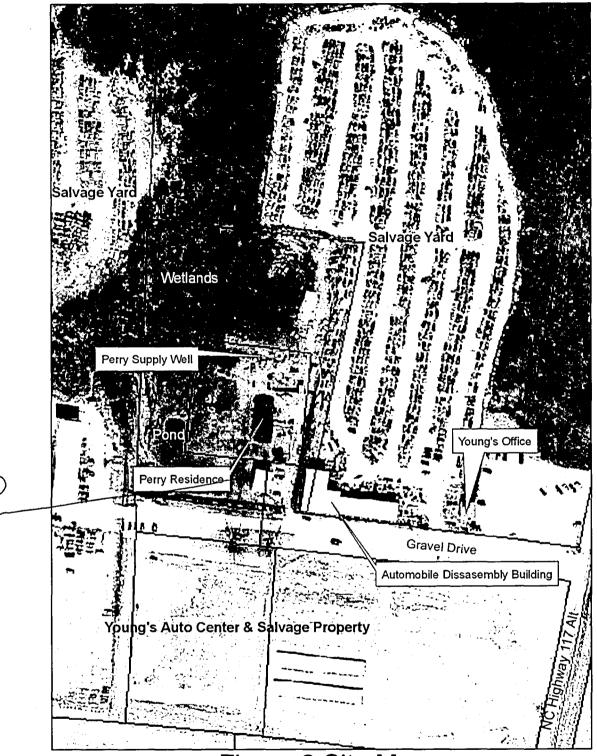


Figure 2 Site Map Perry/Young Site, Wayne County



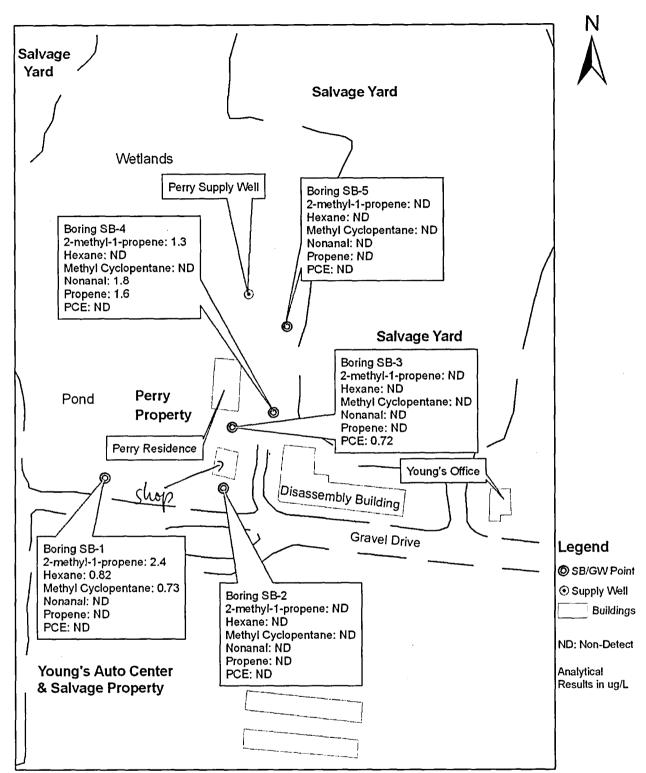


Figure 3 Boring Locations and VOC Concentrations Perry/Young Site, Wayne County



Appendix A Soil Boring Logs



Page: 1 of 1
Boring #: SB-1
County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

<u>Drill Equipment & Method:</u> GeoProbe <u>Start Date:</u> 7/27/06 <u>Completion Date:</u> 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 9' Screen Interval: 4'-8'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm	Well Diagram	Notes/Well Description
	1		Dark brown organic silty sand - moist			~ 2' recov.
	_		"			ĺ
_	_		Med. Brown-tan silty sand - moist	1		
_	-		" – v. moist	}		
_	5		" — saturated	1		SS Screen set from 4'-
_	_	SBI	" with 2-3 ~1" sand lenses			8' bls
_	_		Med. Brown-tan silty sand - saturated]		[
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Page: 1 of 1
Boring #: SB-2
County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

Drill Equipment & Method: GeoProbe Start Date: 7/27/06 Completion Date: 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 13' Screen Interval: 9'-13'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm		Notes/Well Description
	1		Dark brown organic sandy silt - moist	1		~ 3' recov.
	-		" w/ trace clay - moist		}	
	-		66			
	-		Tan sandy clay – moist	7		
	5		"	7		
	_		Reddish tan sandy clay - moist]		
	_		· · · · · · · · · · · · · · · · · · ·	_	ł	}
			Reddish tan sandy silt w/ some clay - v. moist	_		
]		ct		ļ	00.0
	10		" - v. moist - saturated		{	SS Screen set from 9'-
	_	SB2	Tan medium- coarse sand w/ some silt - saturated	_	ļ	13' bis
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Page: 1 of 1
Boring #: SB-3
County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

Drill Equipment & Method: GeoProbe Start Date: 7/27/06 Completion Date: 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 13' Screen Interval: 9'-13'

Land Elevation:

TOC Elevation:

Groundwater (ft btoc) 0 Hours:

24 Hours:

	Dievan		100 Elevation: Steamewater (11 eleve) o Health			
Elev.	Depth (ft. bls)	Sample #		OVA ppm	Well Diagram	Notes/Well Description
	1		Dark brown organic silty sand - moist			~ 3' recov.
-	-	<u> </u>	Orange tan silty sand - moist	7		
F	_	<u> </u>	Orange tan clayey sand - moist	-		
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L.	, J	ļ	44	-		
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_	_	ļ	Reddish orange tan silty sand w/ trace clay – moist	4		
_	_		- v. moist	_	}	SS Screen
L	_			4		set from 9'-
L	10	SB3	Orange tan & red silty sand - saturated	_ -'		13' bls
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Page: 1 of 1
Boring #: SB-4
County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

Drill Equipment & Method: GeoProbe Start Date: 7/27/06 Completion Date: 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 13' Screen Interval: 9'-13'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm	Well Diagram	Notes/Well Description
	1		Tan organic silty sand - moist			~ 3' recov.
			"			
Г	_		"@ 3.5' silty sand w/ clay			
	5		Silty sand w/ some clay - moist			
	_		Silty sandy clay - clayey sand - moist			1
	_		66			
			Orange tan silty sand w/ some clay – v. moist			
			££			SS Screen set from 9'-
	10	SB4	Tan silty sand - saturated		ľ	13' bls
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			Orange tan silty sand w/ trace clay - saturated			
			Not sampled			
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Page: 1 of 1
Boring #: SB-5
County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

<u>Drill Equipment & Method:</u> GeoProbe <u>Start Date:</u> 7/27/06 <u>Completion Date:</u> 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 13' Screen Interval: 9'-13'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm	Well Diagram	Notes/Well Description
	1		Brown tan organic silty sand - moist		_	~ 3' recov.
Γ	_		Tan orange silty sand - moist]:		}
	_					
			" silt content incr. w/ depth			[
Г	5		"			
Γ	_		Tan orange clayey sand - moist			
			Tan orange silty sand, trace clay – v. moist			
	_		66			SS Screen set from 9'-
_	10	SB5	Tan silty sand - saturated]		13' bls
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Appendix B Analytical Results

PERRY/YOUNG SITE - DUDLEY Loc. Descr.:

Location ID:

78718900SB1

WATER SUPPLY

County: River Basin WAYNE

Report To

CSP WARO

Region: Collector: M CUNNINGHAM Sample Matrix: GROUNDWATER

Loc. Type: Sample Depth

Collect Date: 07/27/2006 Collect Time:: 10:25

Sample ID: PO Number# VisitiD

AB06714 6G1448

Date Received: Time Received: 07/28/2006 08:25

Labworks LoginID Date Reported:

AMM

Analyte Name	PQL	Result Qualifier	Units	Approved By
LAB				
Sample temperature at receipt by lab		5.1	*c	DSATTERWHITE
VOL Dichlorodifluoromethane	1.0	Not detected	ug/L	RKELLING
Chloromethane	0.50	Not detected	ug/L	RKELLING
√inyt Chloride	0.50	Not detected	ug/L	RKELLING
3romomethane	0.50	Not detected	ug/L	RKELLING
Chloroethane	0.50	Not detected	ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected	ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methylene Chloride	10	Not detected	ng/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected	ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected	ug/L	RKELLING
cis-1,2-Dichioroethene	0.25	Not detected	ug/L	RKELLING
Bromochloromethane	0.25	Not detected	ug/L	RKELLING
Chloroform	0.25	Not detected	ug/L	RKELLING
2.2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected	ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected	ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected	ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected	ug/L	RKELLING
Benzene	0.25	Not detected	ug/L	RKELLING
Dibromomethane	1.0	Not detected	ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Trichloroethene	0.25	Not detected	nā/L	RKELLING
Bromodichloromethane	0.25	Not detected .	υg/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected	ug/L	RKELLING
Toluene	0.25	Not detected	ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected	Ug/L	RKELLING
Dibromochloromethane	0.25	Not detected	ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected	ug/L	RKELLING

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Loc. Descr.: PERRY/YOUNG SITE - DUDLEY

Location ID: 78718900SB1 County: WAYNE River Basin

Report To Region:

WARO Collector: M CUNNINGHAM Sample Matrix: GROUNDWATER Loc. Type: WATER SUPPLY Sample Depth

Collect Date: 07/27/2006 Collect Time:: 10:25



Sample ID: PO Number # VisitiD

AB06714 801448

Date Received: Time Received: 07/28/2006 08:25

Labworks LoginID Date Reported:

AMM 08/09/2006

Analyte Name	PQL	Result	Qualifier	Units	Approved By
etrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromaform	1.0	Not detected		ug/L	RKELLING
n,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected	e e e e e e e e e e e e e e e e e e e	ug/L	RKELLING
sopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
-Propylbenzene	0.25	Not detected		ug/L	RKELLING
-Chlorotoluene	0.25	Not detected		∪g/L	RKELLING
-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
ert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethy/benzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	. Not detected		ug/L	RKELLING
n-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
o-Isopropyltoluene	0.25	Not detected		Ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ng/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		υg/L	RKELLING
lexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
2-methyl-1-Propene		2.4	N1	ng/L	RKELLING
·lexane		0.82	N1	ug/L	RKELLING
methyl Cyclopentane		0.73	N1	ug/L	RKELLING
Propene		4.5	N1	ug/L	RKELLING

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PERRY/YOUNG SITE - DUDLEY Loc. Descr.: Location ID: 78718900\$B2 Sample ID: AB06715 County: WAYNE PO Number # 6G1449 River Basin VisitiD Report To CSP WARO Date Received: 07/28/2006 Region: 09:55 Time Received: M CUNNINGHAM Collector: Sample Matrix: GROUNDWATER Labworks LogintD MMA Loc. Type: WATER SUPPLY Date Reported: 08/08/2006 Sample Depth Collect Date: 07/27/2006 Collect Time:: 11:55

Result

Qualifier

Approved By

PQL

Analyte Name

AB Sample temperature at receipt by lab		5.1	•c	DSATTERWHITE
/OL	4.0	S. Mandalanda		RKELLING
Dichlorodifluoromethane	1.0	Not detected	ug/L	
Chloromethane	0.50	Not detected	ug/L	RKELLING
Vinyl Chloride	0.50	Not detected	ug/L	RKELLING
3romomethane	0.50	Not detected	ug/L	RKELLING
Chloroethane	0.50	Not detected	ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected	n8/r	RKELLING
1,1-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methylene Chloride	10	Not detected	ug/L	RKELLING
rans-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected	ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected	ug/L	RKELLING
xis-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Bromochloromethane	0.25	Not detected	ug/L	RKELLING
Chloroform	0.25	Not detected	. ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected	ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected	vg/L	RKELLING
1,1-Dichloropropene	0.25	Not detected	ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected	ug/L	RKELLING
Benzene	0.25	Not detected	ug/L	RKELLING
Dibromomethane	1.0	Not detected	ug/L	RKELLING
1,2-Dichioropropane	0.25	Not detected	ug/L	RKELLING
Trichloroethene	0.25	Not detected	ug/L	RKELLING
Bromodichloromethane	0.25	Not detected	ug/L	RKELLING
cis-1,3-Dichloropropene	0,25	Not detected	ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected	ug/L	RKELLING
Toluene	0.25	Not detected	ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Dibromochloromethane	0.25	Not detected	ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected	ug/L	RKELLING

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PERRY/YOUNG SITE - DUDLEY

78718900SB2 Location ID: County: WAYNE River Basin Report To CSP

WARO M CUNNINGHAM Sample Matrix: GROUNDWATER WATER SUPPLY

Loc. Type: Sample Depth

Region:

Collector:

Collect Date: 07/27/2006 Collect Time::



Sample ID: PO Number# VisitiD

AB06715 6G1449

07/28/2006

09:55

Date Received: Time Received:

ММА Labworks LoginID 08/08/2006 Date Reported:

Analyte Name	PQL	Result	Qualifier	Units	Approved By
fetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
3romoform .	1.0	Not detected		ug/L	RKELLING
n,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	Ø.25	Not detected		ug/L	RKELLING
sopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		υg/L	RKELLING
n-Propylbenzene	0.25	Not detected		Ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ng/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
ert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		· ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		nð/r	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
o-Isopropyltoluene	0.25	Not detected		na/r	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		Ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
VOC'S BY GC/MS		Not detected		ug/L	RKELLING

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PERRY/YOUNG SITE - DUDLEY Loc. Descr.: RECEIVED / DENG/DWG ACUSTER PROTECTION SEC. WATER Location ID: 78718900SB3 County: WAYNE River Basin CSP Report To 06 AUG 15 PH 1: WARO

M CUNNINGHAM

GROUNDWATER

WATER SUPPLY

Sample ID: PO Number# VisitiD

AB06716 6G1450

Date Received: Time Received: 07/28/2006 09:55

Labworks LoginID Date Reported:

08/11/2006

Sample Depth Collect Date: 07/27/2006

Region:

Collector: Sample Matrix:

Loc. Type:

Collect Time:: 23:35

Analyte Name	PQL	Result	Qualifier	Units	Approved By

Sample temperature at receipt by lab		5.1	*c	DSATTERWHITE
/OL Dichlorodifluoromethane	1.0	Not detected	ug/L	RKELLING
hkoromethane	0.50	Not detected	ug/L	CRIKELLING
Inyl Chloride	0.50	Not detected	ug/L	BKELLING !!
romomethane	0.50	Not detected	ug/L	RKELLING
hloroethane	0.50	Not detected	Ug/L	BRELLING
richlorofluoromethane	0.50	Not detected	ug/L	RISELLING
,1-Dichloroethene	0.25	Not detected	ug/L	RKELLING
lethylene Chloride	10	Not detected	ug/L	RKELLING -
ans-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING :
lethyl Tert-Butyl Ether	0.25	Not detected	ug/L	RKELLING
,1-Dichloroethane	0.25	Not detected	ug/L	RKELLING
is-1,2-Dichloroethena	0.25	Not detected	ug/L	RKELLING
romochloromethane	0.25	Not detected	ug/L	RKELLING
hloroform	0.25	Not detected	ug/L	RKELLING
,2-Dichloropropane	0.25	Not detected	Ug/L	RKELLING
,2-Dichloroethane	0.25	Not detected	Ug/L	RKELLING
,1,1-Trichloroethane	0.25	Not detected	υg/L	RKELLING
,1-Dichloropropens	0.25	Not detected	ug/L	RKELLING
arbon Tetrachloride	0.25	Not detected	ug/L	RKELLING
Benzene	0.25	Not detected	ug/L	RKELLING
Dibromomethane	1.0	Not detected	ug/L	RKELLING
,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
richloroethene	0.25	Not detected	ug/L	RKELLING
Bramodichloromethane	0.25	Not detected	υg/L	RKELLING
sis-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
ans-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
.1,2-Trichloroethane	0.25	Not detected	υg/L	RKELLING
foluene	0.25	Not detected	ug/L	RKELLING
,3-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Dibromochloromethane	0.25	Not detected	ug/L	RKELLING
EDB)1,2-Dibromoethane	0.25	Not detected	ug/L	RKELLING
				

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PERRY/YOUNG SITE - DUDLEY Loc. Descr.:

78718900SB3 Location ID: County: WAYNE

River Basin Report To

CSP

WARO Region: M CUNNINGHAM Collector: Sample Matrix: GROUNDWATER
Loc. Type: WATER SUPPLY

Sample Depth

Collect Date: 07/27/2006 Collect Time:: 23:35



Sample ID: PO Number # VisitiD

AB08716 6G1450

Date Received: Time Received: 07/28/2006 09:55

Labworks LoginiD Date Reported:

мма 08/11/2006

Analyte Name	PQL	Result	Qualifler	Units	Approved By
fetrachloroethene	0.25	0.72		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
n,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
,1,1,2-Tetrachloroethane	0.25	Not detected		∪g/L	RKELLING
-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected	enter carre capero	υg/L	··· RKELLING ·····
sopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		n8√r	RKELLING
1-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
ert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L ·	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		υg/L	RKELLING
p-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		Ug/L	RKELLING
Hexachlorobutadien e	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichkorobenzene	1.0	Not detected		υg/L	RKELLING

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PERRY/YOUNG SITE - DUDLEY Loc. Descr.: 78718900584 RECEIVED/LENEVERSES. WAYNE ADUITER PROTECTION SEC. Location ID: Sample ID: AB06717 County: PO Number # 6G1451 River Basin 05 AUG 15 PM 1: 26 6 VisitiD Report To WARO Date Received: 07/28/2006 Region: M CUNNINGHAM 09:55 Time Received: Collector: GROUNDWATER Sample Matrix: Labworks LoginID Loc. Type: WATER SUPPLY 08/11/2006 8 Date Reported: Sample Depth Collect Date: 07/27/2008 Collect Time:: 14:50

Result

Qualifier

Units

Approved By

PQL

_AB Sample temperature at receipt by lab		5.1	*c	DSATTERWHITE
/OL	1.0	Not detected		RKELLING
Dichlorodifluoromethane			ug/L	RKELLING
Chloromethane	0.50	Not detected	ug/L	
/inyl Chloride	0.50	Not detected	ug/L	RKELLING
Bromomethane	0.50	Not detected	n8/r	RKELLING
Chloroethane	0.50	Not detected	nð/r	RKELLING
Inchlorofluoromethane	0.50	Not detected	n8/r	RKELLING
1,1-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methylene Chloride	10	Not detected	ug/L	RKELLING
rans-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected	ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected	ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Bromochloromethane	0.25	Not detected	ug/L	RKELLING
Chloroform	0.25	Not detected	ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
,2-Dichloroethane	0.25	Not detected	ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected	ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected	ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected	ug/L	RKELLING
Benzene	0.25	Not detected	ug/L	RKELLING
Dibromomethane	1.0	Not detected	ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Trichloroethene	0.25	Not detected	ug/L	RKELLING
Bromodichloromethane	0.25	Not detected	ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
rans-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected	ug/L	RKELLING
Toluene	0.25	Not detected	ug/L	RKELLING
1.3-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Dibromochloromethane	0.25	Not detected	ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected	ug/L	RKELLING

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Analyte Name

PERRY/YOUNG SITE - DUDLEY Loc. Descr.:

Location ID: County: WAYNE

78718900SB4

River Basin Report To

CSP WARO

Region: M CUNNINGHAM Collector: Sample Matrix: GROUNDWATER Loc. Type: WATER SUPPLY

Sample Depth

Collect Date: 07/27/2006 Collect Time:: 14:50



Sample ID: PO Number #

VisitiD

AB06717 6G1451

Date Received: Time Received: 07/28/2006 09:55

Labworks LoginID Date Reported:

мма 08/11/2006

Analyte Name	PQL	Result	Qualifier	Units	Approved By
Tetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
n,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
,1,2,2-Tetrachloroethane	0.25	Not detected		υg/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
sopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
ert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
n-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
o-Isopropyltoluene	0.25	Not detected		∪g/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		Ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
fexachlorobuladiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
2-methyl-1-Propene		1.3	N1	ug/L	RKELLING
Nonanal		1.8	N1	ug/L	RKELLING
Propene		1.6	N1	ug/L	RKELLING

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PERRYYOUNG SITE - DUDLEY Loc. Descr.: Location ID: 78718900SB5 Sample ID: PO Number# AB06718 County: WAYNE 6G1452 River Basin VIsitiD Report To CSP WARO Date Received: 07/28/2006 Region: Time Received: 09:55 Collector: M CUNNINGHAM Sample Matrix: GROUNDWATER Labworks LoginID MMA Loc. Type: WATER SUPPLY 08/08/2006 5 Date Reported: Sample Depth Collect Date: 07/27/2006 Collect Time:: 15:55

Result

PQL

Analyte Name

Qualifier

Units

Approved By

LAB Sample temperature at receipt by lab		5.1	•c	DSATTERWHITE
VOL		•		1
Dichlorodifluoromethane	1.0	Not detected	ug/L	RKELLING
Chloromethane	0.50	Not detected	ug/L	RKELLING
Vinyl Chloride	0.50	Not detected	υg/L	RKELLING
Bromomethane	0.50	Not detected	ug/L	RKELLING
Chloroethane	0.50	Not detected	na/r	RKELLING
Frichlorofluoromethane	0.50	Not detected	ug/L	RKELLING
,1-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methylene Chloride	10	Not detected	ug/L	RKELLING
rans-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected	ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected	ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Bromochloromethane	0.25	Not detected	ug/L	RKELLING
Chloroform	0.25	Not detected	ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected	ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected	ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected	ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected	ug/L	RKELLING
Benzene	0.25	Not detected	ug/L	RKELLING
Dibromomethane	1.0	Not detected	ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected	ոն/Ր	RKELLING
Trichioroethene	0.25	Not detected	ug/L	RKELLING
Bromodichloromethane	0.25	Not detected	ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected	ug/L	RKELLING
Toluene	0.25	Not detected	ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Dibromochloromethane	0.25	Not detected	ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected	υοΛ	RKELLING

Laboratory Section>> 1623 Mail Service Center, Raleigh, NC 27699-1623 (919) 733-3908 Page 1 of 2

PERRY/YOUNG SITE - DUDLEY Loc. Descr.:

WATER SUPPLY

78718900SB5 Location ID: County:

River Basin Report To

WAYNE

CSP Region: WARO Collector: M CUNNINGHAM Sample Matrix: GROUNDWATER

Loc. Type: Sample Depth

Collect Date: 07/27/2006 Collect Time:: 15:55



Sample ID: PO Number # VisitiD

AB06718 6G1452

Date Received:

07/28/2006 09:55

Labworks LoginID Date Reported:

MMA 08/08/2006

Analyte Name	PQL	Result	Qualifier	Units	Approved By
Tetrachioroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected	" "	Ug/L	RKELLING
3romoform .	1.0	Not detected		ug/L	RKELLING
n.p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
p-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		Ug/L	RKELLING
sopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene ·	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
lert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1.4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1.2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
VOC'S BY GC/MS		Not detected		ug/L	RKELLING

Laboratory Section>> 1623 Mail Service Center, Raleigh, NC 27699-1623 (919) 733-3908 Page 2 of 2

29

PERRY/YOUNG SITE - DUDLEY Loc. Descr.: 78718900BLK Location ID: AB06713 County: WAYNE PO Number # 6G1447 River Basin VisitiD Report To CSP Date Received: 07/28/2006 Region: WARO 09:55 M CUNNINGHAM Time Received: Collector: Sample Matrix: GROUNDWATER Labworks LoginID MMA TRIP BLANK Loc. Type: 08/08/2006 Date Reported: Sample Depth Collect Date: 07/27/2006 Collect Time:: 07:10

Result

PQL

Analyte Name

Qualifier

Units

Approved By

AB ample temperature at receipt by lab	·	5.1	*C	DSATTERWHITE
OL.	1.0	Not detected	ug/L	RKELLING
	0.50	Not detected	ug/L	RKELLING
Chloromethane	0.50	Not detected	ug/L	RKELLING
finyl Chlorids			ug/L	RKELLING
romomethane	0.50	Not detected		RKELLING
chloroethane	0.50	Not detected	n8/r	RKELLING
richlorofluoromethane	0.50	Not detected	ug/L	
,1-Dichloroethene	0.25	Not detected	ug/L	RKELLING
fethylene Chloride	10	Not detected	ug/L	RKELLING
ans-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
Nethyl Tert-Butyl Ether	0.25	Not detected	ug/L	RKELLING
,1-Dichloroethane	0.25	Not detected	ug/L_	RKELLING
is-1,2-Dichloroethene	0.25	Not detected	ug/L	RKELLING
romochloromethane	0.25	Not detected	ug/L	RKELLING
Chloroform	0.25	Not detected	ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
,2-Dichloroethane	0.25	Not detected	ug/L	RKELLING
,1,1-Trichloroethane	0.25	Not detected	ug/L	RKELLING
,1-Dichloropropene	0.25	Not detected	ug/L	RKELLING
Carbon Tetrachloride	0.25	Not delected	ug/L	RKELLING
Benzene	0.25	Not detected	ug/L	RKELLING
Dibromomethane	1.0	Not detected	ug/L	RKELLING
.2-Dichloropropane	0.25	Not detected	ug/L	RKELLING
richloroethene	0.25	Not detected	ug/L	RKELLING
3romodichloromethane	0.25	Not detected	ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected	υg/L	RKELLING
rans-1,3-Dichloropropene	0.25	Not detected	ug/L	RKELLING
.1.2-Trichloroethane	0.25	Not detected	ug/L	RKELLING
Toluene	0.25	Not detected	ug/L	RKELLING
1.3-Dichloropropane	0.25	Not detected	ug/L	RKELLING
Dibromochloromethane	0.25	Not detected	ug/L	RKELLING
EDB)1,2-Dibromoethane	0.25	Not detected	ug/L	RKELLING

Laboratory Section>> 1623 Mail Service Center, Raleigh, NC 27699-1623 (919) 733-3908 Page 1 of 2

NC DWQ Laboratory Section Results

PERRY/YOUNG SITE - DUDLEY Loc. Descr.:

Location ID:

78718900BLK

County: River Basin WAYNE CSP

Report To Region:

WARO Collector: M CUNNINGHAM Sample Matrix: GROUNDWATER TRIP BLANK

Loc. Type: Sample Depth

Collect Date: 07/27// Collect Time:: 07:10 07/27/2006



PO Number #

VisitiD

Time Received:

6G1447 Date Received:

07/28/2008 09:55

AB06713

Labworks LoginiD Date Reported:

MMA 08/08/2006

Analyte Name	PQL	Result	Qualifier	Units	Approved By
etrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
thylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
n,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
sopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chioratoluene	0.25	Not detected		ug/L	RKELLING
1-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
lert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0,25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
VOC'S BY GC/MS		Not detected		ug/L	RKELLING

Laboratory Section>> 1623 Mail Service Center, Raleigh, NC 27699-1623 (919) 733-3908 Page 2 of 2

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GROUNDWATER SECTION

Page | of |

CHAIN OF CUSTODY (COC) RECORD

NC DENR/DWQ L	ABORATORY (:heck one);	IN I CE	NTRAL	[□] ARG	D □ W∎RC					
For Investigation	1292	Home.	Prop.			1	Inciden	t No. 9	7189		
Sample collector and GW-54 form	(print name)	Michael Sam	Conni ple colle	ctór's signat	ure:	Michel	50			-	
Field storage con	nditions and loca	tion (when app	licable):								
Lab Use Only LAB NO.	SAMPLE ID	QUAD. NO		LOCATION	1		DATE SAMPLED	TIME			MBER OF FAINERS
AR16113	BLK	- QUADING	<i>,</i>	78718		ı V.	7/27/06	071		<u></u> ک	
MAMONIL	SB-1	┪		78718			7/27/06	102		4	
14 06 115	58-2			78718			7/27/06	115		4	
4K06716	SB-3	1		7871			7/22/06	133		4	
AB06717	38-4	1			18900		7/27/06	14.		4	
AR 16/19	SB-5				1890		7/27/06	15:		4	,
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Relinguished by	(signature):			Dase 7/28/05	Time DY50	Proved by	mal winne	1	Date 06070	28	Time 9955
Relinquished by	(signature):			Date	Time	Received by (sig	mature):		Date		Time
Relinquished by	(signature):			Date	Time	Received by (sig	gnature):		Date		Time
Method of Ships	ment (check one)	: State Courie	r H	and-delivere	d T	deral Express	UPS□ Other:		·		
		Sealed by				Bry					
Security Type ar	nd Conditions:	Mich	1 5	mningha	m	190	Told M Will	las	us	_ر	
INTRALABORA	ATORY CHAIN	OF CUSTO	DY - 1	Lab Use Onl	l <u>y</u>						
LAB NU	MBERS THROUGH	NUMBER BOTTLES		NALYSES QUESTED	RE B	LINQUISHED	RECEIVED BY:	1	DATE	ו	IME
ABK1134	ABOKNIS	23	9/10/	atila	1 4	Maldred I'll	ins Sund Sh	Rs 7/	28/06	10.	340
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	PEC.	VOTECTION OTECTION	d 845 13512.) <u>.</u> 33						4	_
]						<u>_</u>	1	$\overline{}$



William G. Ross Jr., Secretary North Carolina Department of Environment and Natural Resources

> Alan W. Klimek, P.E. Director Division of Water Quality

DIVISION OF WATER QUALITY Aquifer Protection Section July 14, 2006

Mr. Johnnie Perry 4172 A US Highway 117 Alternate South Dudley, North Carolina 28333

RE:

Groundwater Sample Analytical Results

Johnnie Perry Supply Well

4172 A US Highway 117 Alternate South Dudley, Wayne County, North Carolina

Dear Mr. Perry:

On May 11, 2006, personnel from the Washington Regional Office collected samples from your water well located at the above referenced property. The samples were analyzed for volatile organic compounds (VOCs) and metals (silver aluminum, arsenic, barium, calcium, cadmium, chromium, copper, iron, mercury, potassium, magnesium, manganese, sodium, nickel, lead, selenium, and zinc.

The VOC laboratory results indicate no concentrations above the laboratory reporting limits. Concentrations of metals are summarized in the table below. Laboratory reports are attached.

Parameter (Metals)	2L Groundwater Standard (μg/L)	Test Results (µg/L)
Ag - Silver	17.5	<5
Al - Aluminum	NE	1,000
As - Arsenic	10	<5
Ba - Barium	2,000	280
Ca – Calcium	NE	1,300
Cd – Cadmium	1.75	<2
Cr – Chromium	50	<25
Cu - Copper	1,000	100
Fe – Iron	300	290
Hg – Mercury	1.05	0.77
K – Potassium	NE	2,500
Mg - Magnesium	NE	3,000
Mn - Manganese	50	55
Na – Sodium	NE	3,500
Ni - Nickel	100	<10
Pb - Lead	15	<10
Se - Selenium	50	<5
Zn - Zinc	1,050	29
μ g/L = micrograms per liter		

North Carolina Division of Water Quality 943 Washington Square Mall Washington, NC 27889

Internet: h2o.enr.state.nc.us Phone: 252-946-6481 FAX 252-975-3716

< = Concentrations are below the laboratory reporting limits



NE = Standard not established

The table shows that none of the metals concentrations exceed the 15A NCAC 2L groundwater quality standards.

The results were submitted to the Department of Health and Human Services (DHHS), Division of Public Health Occupational and Environmental Epidemiology Branch, for a drinking water health risk evaluation. The results of the evaluation, received on June 21, 2006, show that 'the water should be considered safe for normal use". A copy of the report is attached.

Please note that your water samples were not analyzed for all possible analyses and that the provided analytical results should not be interpreted as an over all indication of water quality. For additional information concerning these results, or any potential health impacts, please contact the Wayne County Health Department. For your convenience this office will send a copy of this letter, along with the analytical results and drinking water health risk evaluation to the Wayne County Health Department.

Please feel free to contact me at (252) 948-3949if you have any further questions or require additional information.

Sincerely,

Rose Ballance, L.G.

Hydrogeologist

Washington Regional Office

cc:

Mike Cunningham, Field Investigation Unit, APS Central Office Wayne County Health Department \/\sqrt{WaRO files}

ENR/DWQ LABORATORY VOLATILE ANALYTICAL REPORT

SAMPLE TYPE: WATER

REPORTED BY CHECKED BY

REVIEWED BY

ANALYTICAL RESULTS

SUPERVISOR

ENTERED BY DATE

CAS#	Volatile Organic	PQL	RESULT		Volatile Organio	POL	RESULT
Essential AVAR	Target Compound	ag/L	սց/Լ	CAS#	Target Compound	ug/L	øg/L
75-71-8	Dichlorodifluoromethane	1.0	U	630-20-6	1 1 1 2 Totrophlomothers	0.05	
74-87-3	Chloromethane	0.50	Ü	75-25-2	1,1,1,2-Tetrachloroethane Bromoform	0.25	U
75-01-4	Vinyl Chloride	0.50	Ü	79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
74-83-9	Bromomethane	0.50	Ü	96-18-4	1,1,2,2-retraction betriane 1,2,3-Trichloropropane	0.25 0.25	U
75-00-3	Chloroethane	0.50	Ü	108-86-1	Bromobenzene	0.25	U
75-69-4	Trichlorofluoromethane	0.50	. U	95-49-8	2-Chlorotoluene		U
75-35-4	1.1-Dichloroethene	0.25	ับ	106-43-4	4-Chlorotoluene	0.25	U
75-09-2	Methylene Chloride	10	Ü	541-73-1	1,3-Dichlorobenzene	0.25	ນ
156-60-5	trans-1,2-Dichloroethene	0.25	บ	106-46-7	•	0.25	Ü
75-34-3	1,1-Dichloroethane	0.25	Ü	95-50-1	1,4-Dichlorobenzene	0.25	ប
594-20-7	2,2-Dichloropropane	0.25	Ü	96-12-8	1,2-Dichlorobenzene	0.25	U
156-59-4	cís-1,2-Dichloroethene				1,2-Dibromo-3-Chloropropane	2.0	U
67-66-3	·	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.50	. u
	Chloroform	0.25	U	87-68-3	Hexachlorobutadiene	0.50	บ
74-97-5	Bromochloromethane	0.25	U 	87-61-6	1,2,3-Trichlorobenzene	1.0	U
71-55-6	1,1,1-Trichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	0.25	υ
563-58-6	1,1-Dichloropropene	0.25	U	71-43-2	Benzene	0.25	U
56-23-5	Carbon Tetrachloride	0.25	U	108-88-3	Toluene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	, U	100-41-4	Ethyl benzene	0.25	U
79-01-6	Trichloroethene	0.25	U	108-38-3	m,p-Xylenes	0.50	U
78-87-5	1,2-Dichloropropane	0.25	U	95-47-6	o-Xylene	0.25	U
75-27-4	Bromodichloromethane	0.25	U	100-42-5	Styrene	0.25	υ
74-95-3	Dibromomethane	1.0	U	98-82-8	Isopropylbenzene	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	IJ	103-65-1	n-Propylbenzene	0.25	υ
10061-02-6	trans-1,3-Dichloropropene	0.25	U	108-67-8	1,3,5-Trimethylbenzene	0.25	Ū
79-00-5	1,1,2-Trichloroethane	0.25	U	98-06-6	tert-Butylbenzene	0.25	บ
127-18-4	Tetrachloroethene	0.25	บ	95-63-6	1,2,4-Trimethylbenzene	0.25	Ū
142-28-9	1,3-Dichloropropane	0.25	U	135-98-8	sec-Butylbenzene	0.25	บ
124-48-1	Dibromochloromethane	0.25	ឋ	99-87-6	p-isopropyltoluene	0.25	ŭ
106-93-4	1,2-Dibromoethane	0.25	Ŭ	104-51-8	n-Butvibenzene	0.25	บ
108-90-7	Chlorobenzene	0.25	ŭ	91-20-3	Naphthalene	0.50	Ü
		0.20		31-20-3	Naprilialene	0.50	U
001	Branding Committee Alice A Committee					mg/L	mg/L
PQL	Practical Quantitation Limit- Subject to			Gasoline Range E	stimated Total Petroleum Hydrocarbon	0.20	X
	change due to instrument sensitivity						ł
N-	Tentatively Identified, not confirmed			Other Volatile Org			Result
J-	Estimated Value			(up to 10 highest p	eaks)		ug/L_
U-	Samples analyzed for this compound but no	ot detected					_
X-	Sample not analyzed for this compound		•		•		
N3-	Estimated concentration is <pql and="">MD</pql>	1		NO VOLATILE OF	RGANIC COMPOUNDS		
P	Elevated PQL due to matrix interference an	-	dilution	DETECTED BY G			
r	Fig. serior in the first inferior sufferior su	wor sample	unuuun	DETECTED BY G			····
					- <u> </u>	TV BT	
COMMENTS:					: 15 6 6	<u> </u>	
COMMENTS							·

JUN 19 2006

WASHINGTON REGIONAL OFFICE DWQ

DIVISION OF WATER QUALITY

Chemistry Laboratory Report / Ground Water Quality SAMPLE PRIORITY X ROUTINE EMERGENCY

CHAIN OF CUSTODY

WS-1

WS-1

PURPOSE: Owner: JOHNNIE PERRY

Location or Site:

Description of sampling point

Sampling Method:

Remarks:

Regional Office

LABORATORY ANALYSIS

WAYNE

WARO

5/16/2006

10:05

COUNTY:

QUAD NO:

DATE:

ттме:

REPORT TO :

COLLECTOR(S) : C STONE

BOD 310	mg/L	Diss. So
COD High 340	mg/L	Fluoride
COD Low 335	mg/L	Hardnes
Coliform: MF Fecal 31616	/100ml	Hardnes
Coliform: MF Total 31504	/100ml	Phenols
тос	mg/l	Specific
Turbidity	บาห	Sulfate
Residue., Suspended 530	mg/L	Sulfide
Total Suspended solids	mg/L	MBAS
		Oil and
pH	units	Silica
Alkalinity to pH 4.5	mg/L	Boron
Alkalinity to pH 8.3	mg/L	Formald
Carbonate	mg/L	NH3 as
Bicarbonate	mg/L	TKN as
Carbon dioxide	mg/L	NO2 +N
Chloride	mg/L	P: Total
Chromium: 11ex 1032	ug/L	PO4
Color: True 80	c.u.	Nitrate (
Cyanide 720	me/L	Nitrite (

Diss. Solids 70300	mg/L
Fluoride 951	mg/L
Hardness: total 900	mg/L
Hardness: (non-carb) 902	mg/L
Phenois 32730	ug/L
Specific Cond. 95	umhos/cm2
Sulfate	mg/L
Sulfide 745	mg/L
MBAS	mg/L
Oil and Grease	mg/L
Silica	mg/L
Boron	
Formaldehyde	mg/L
NH3 as N 610	mg/L
TKN as N 625	mg/L
NO2 +NO3 as n 630	mg/L
P: Total as P 665	mg/L
PO4	mg/L
Nitrate (NO ₃ as N) 620	mg/L
Nitrite (NO ₂ as N) 615	mg/L

X As-Arsenic 46551 5.0U ug/ X Ba-Barium 46558 280 ug/ X Ca-Calcium 46552 1.3 mg X Cd-Cadmium 46559 2.0U ug/ X Cr-Chromium 46560 25U ug/ X Cu- Copper 1042 100 ug/ X Fe- Iron 1045 290 ug/ X Hg- Mercury 71900 0.77 ug/ X K-Potassium 46555 2.5 mg X Mg- Magnesium 927 3.0 mg X Mn-Manganese 1055 55 ug/ X Na- Sodium 929 3.5 mg X Ni-Nickel 10U ug/ X Pb-Lead 46564 10U ug/ X Se-Selenium 5.0U ug/	X	Ag-Silver 46566	5.0U ug/L
X Ba-Barium 46558 280 ug/s X Ca-Calcium 46552 1.3 mg X Cd-Cadmium 46559 2.0U ug/s X Cr-Chromium 46560 25U ug/s X Cu-Copper 1042 100 ug/s X Fe- Iron 1045 290 ug/s X Hg- Mercury 71900 0.77 ug/s X K-Potassium 46555 2.5 mg X Mg- Magnesium 927 3.0 mg X Mn-Manganese 1055 55 ug/s X Na- Sodium 929 3.5 mg X Ni-Nickel 10U ug/s X Pb-Lead 46564 10U ug/s X Se-Selenium 5.0U ug/s	x	Al-Aluminum 46557	1000 ug/L
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X Hg- Mercury 71900 0.77 ug/ X K-Potassium 46555 2.5 mg X Mg- Magnesium 927 3.0 mg X Mn-Manganese 1055 55 ug/ X Na- Sodium 929 3.5 mg X Ni-Nickel 10U ug/ X Pb-Lead 46564 10U ug/ X Se-Selenium 5.0U ug/	X	Cu- Copper 1042	100 ug/L
X K-Potassium 46555 2.5 mg X Mg- Magnesium 927 3.0 mg X Mn-Manganese 1055 55 ug/ X Na- Sodium 929 3.5 mg X Ni-Nickel 10U ug/ X Pb-Lead 46564 10U ug/ X Sc-Selenium 5.0U ug/	X	Fe- Iron 1045	290 ug/L
X Mg- Magnesium 927 3.0 mg X Mn-Manganese 1055 55 ug/ X Na- Sodium 929 3.5 mg X Ni-Nickel 10U ug/ X Pb-Lead 46564 10U ug/ X Se-Selenium 5.0U ug/	X	Hg- Mercury 71900	0.77 ug/L
X Mg- Magnesium 927 3.0 mg X Mn-Manganese 1055 55 ug/ X Na- Sodium 929 3.5 mg X Ni-Nickel 10U ug/ X Pb-Lead 46564 10U ug/ X Se-Selenium 5.0U ug/	x	K-Potassium 46555	2.5 mg/L,
X Mn-Manganese 1055 55 ug/ X Na- Sodium 929 3.5 mg X Ni-Nickel 10U ug/ X Pb-Lead 46564 10U ug/ X Se-Selenium 5.0U ug/	x	Mg- Magnesium 927	3.0 mg/L
X Pb-Lead 46564 10U ug/ X Sc-Selenium 5.0U ug/	x	Mn-Manganese 1055	55 ug/L
X Pb-Lead 46564 10U ug/ X Sc-Selenium 5.0U ug/	X	Na- Sodium 929	3.5 mg/L
X Pb-Lead 46564 10U ug/ X Sc-Selenium 5.0U ug/	X	Ni-Nickel	10U ug/L
		Pb-Lead 46564	10U ug/L
X Zn-Zinc 46567 29 ug/	X	Se-Selenium	5.0U ug/L
	X	Zn-Zine 46567	29 ug/L
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	Organochlorine Pesticides
	Organophosphorus Pesticides
_	Nitrogen Pesticides
	Acid Herbicides
_	Semivolatiles
	TPH-Diesel Range
<u>x</u>	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
_	TPH-BTEX Gasoline Range
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Lab Number: AB04271 Date Received: 5/17/2006

Time Received: 9:00 AM

Date reported: 6/14/2006

Received By:

Released By :

JUN 19 2006
WASHINGTON REGIONAL OFFICE

COMMENTS:

NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY BRANCH

	Rang Well	
DATE	DRINKING WATER HEALTH RISK EVALUATION GENERAL 6 21 06 COUNTY Wayne LABORATORY# LABORATORY#	AB04271
A	Based on these analytical results, this water should be considered safe fo	r normal usage.
0	Chemical analysis did not show any contamination. Water should be resortaste persists.	ampled if odor
ט	The water should not be used for drinking or cooking purposes; avoid pr bathing/showering.	olonged
	Based on these analytical results, this water is highly contaminated and sused for drinking, cooking, or bathing/showering.	should not be
	The laboratory results are not conclusive, please resample.	
PLEA PREV	SE INDICATE ON LAB SHEET THAT IT IS A RESAMPLE AND : TOUS SAMPLE NUMBER(S).	PROVIDE
COM	MENTS:	
	Post-It Fax Note 7671 Date C/2()06 pages 1 To Nose Ballance From Dv. Lan Sheds Co. NC DITAT Phone # Phone # 9/9 707 711 Fax # 252-915-3716 Fax #	

For further information, contact Dr. Ken Rudo with the Occupational and Environmental Epidemiology Branch at (919) 707-5911.



William G. Ross Jr., Secretary North Carolina Department of Environment and Natural Resources

> Alan W. Klimek, P.E. Director Division of Water Quality

DIVISION OF WATER QUALITY Aquifer Protection Section April 12, 2006

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7005 1820 0002 4630 8493

Mr. Johnnie Perry 4172 A US Highway 117 Alternate South Dudley, North Carolina 28333

Dear Mr. Perry:

On September 27, 2005, Washington Regional Office (WaRO) staff collected a water sample from your supply well to verify the results of a sample collected from the same well by the Wayne County Health Department in August 2005. Both samples tested positive for petroleum hydrocarbons, specifically the fuel additive methyl tert-butyl ether (MtBE). In both samples, MtBE concentrations were below the regulatory standard. The adjacent property (Young's Auto Center & Salvage) has been identified as a possible source of the contamination.

In a letter dated November 14, 2005, this office proposed to conduct a preliminary investigation to determine the source and extent of the contamination and requested your written permission to access your property for the purpose of testing the soil and groundwater.

Within the past two months, WaRO staff have made several follow-up calls to your voice mail regarding the investigation and offering to resample your well. To date, these calls have not been returned.

Please inform this office, either in writing or by phone, within *fifteen (15) days* of receipt of this letter if you wish to pursue the investigation or have your well resampled. If we do not receive a response from you within this time frame, we will call off the investigation and close the incident.

Sincerely.

Rosemarie Ballance, LG

Hydrogeologist

cc: Mike Cunningham, Field Investigations Unit, APS Central Office WaRO

DIVISION OF WATER QUALITY **Aquifer Protection Section**

February 16, 2006

MEMORANDUM:

TO:

Ted Bush, Chief Aquifer Protection Section, Central Office

Through:

FROM:

Rose Ballance, Hydrogeologist Aquifer Protection Section

Washington Regional Office (

Washington Regional Office

SUBJECT:

Request for Investigation Perry/Young Property

4172 US Hwy 117 Alternate South

Dudley, Wayne County Site Ranking: 75/B Incident Number 87189

Attached is a draft request for a subsurface investigation to identify the source of MtBE contamination impacting a residential supply well at the above location (Perry Residence) and assist with determining the responsible party.

MtBE (at a concentration of 0.8 μ g/L) was detected in a water sample collected from the well in late August 2005 by Wayne County Environmental Health Department staff. MtBE was again detected, at the same concentration, in a water sample collected by WaRO staff on September 27, 2005.

The Perry Residence is almost completely surrounded by a vehicle salvage facility. The facility (Young's Auto Center & Salvage) occupies about 90 acres of land and is considered a potential source of the contamination. Of particular concern is a parts cleaning area, located adjacent to Mr. Perry's property. The area is topographically (and likely hydrologically) upgradient of Mr. Perry's property and supply well. Alternatively, contamination may have occurred in the past when, according to salvage yard employees, Mr. Perry engaged in lawn mower repairs on his property.

To identify the source of contamination and responsible party, about six Geoprobe borings are proposed. The investigation will be confined to Mr. Perry's property as we have not received an access agreement from Young's Auto Center. A planning meeting will be scheduled after the draft request is approved.

If you have any questions, please call me at 252-948-3949.

REQUEST FOR INVESTIGATION (RFI)

¹ Incident/Project name: PERRY / YOUNG PROPERTY	² Incident Number: 87538				
³ Region/County: WASHINGTON/WAYNE	⁴ Site Ranking: 75/B				
⁵ Address/Location: 4172 South US 117 Alternate Dudley, NC 28333	⁶ USGS 7.5' Quadrangle Name and Site Latitude & Longitude: Goldsboro SW QUADRANGLE 35 16 46.8 N, 78 02 28.7 W				
⁷ Regional Office Contact: Rose Ballance	⁸ Date submitted: February 15, 2006				
9 RFI Planning Meeting(s)*: To be conducted prior to final approval.					

In late August 2005 Wayne County Environmental Health Department staff sampled a water supply well at the Perry residence for volatile organics. The samples had 0.8 ppb MtBE. MtBE was detected at the same concentration in a follow-up sample collected by WaRO staff on September 27, 2005. The Perry residence is almost completely surrounded by land owned by Ricky Young who uses the property for an Auto Center and Salvage yard. An investigation is requested to identify the source of the contamination and the responsible party. Although the detected presence of MtBE is below the 2L groundwater standard, identification of the source area is warranted to confirm whether a much larger problem exists.

¹¹ How will implementation of the proposed Investigation help identify the Responsible Party or resolve the issue(s) listed in #10 above?

Implementation of the proposed investigation should provide information as to the source of the contamination in Mr. Perry's well and to determine if contaminant concentrations are higher in other areas. Mr. Perry has noticed surface run-off onto his property from a parts cleaning area that borders his property. The parts cleaning area is topographically (and likely hydrologically) upgradient of Mr. Perry's property and supply well. According to salvage yard employees, Mr. Perry has in the past engaged in lawn mower repair on his property.

¹² Attach a Site Location Map (combine with other map(s) if appropriate). Map attached

¹⁰ What event(s) or groundwater issue(s) necessitated this Request for Investigation?

REQUEST FOR INVESTIGATION (RFI)

13 DRILLING INFORM	IATTON				 -		
13a Proposed drilling method: Geoprobe 13b Estimated depth to bedrock or first							
Proposed drilling the	aloa. Geoplobe		confining unit: ~72 '				
13c Proposed decontamin	nation location: On site		13d Estimated depth to groundwater: ~?'				
Troposou accontanti							
13e Proposed disposal fa	cility for contaminated w	ater and soils:	13f Source	of clean drilling/dec	on water:		
None proposed			ermined after meeti				
			visit				
13g Proposed Well	13h Proposed Depth	¹³ⁱ Propose	d ^{13j}	Construction and Co	ompletion		
Number		Diameter					
Six; exact location					ľ		
and number to be			N/A	. Use screen sample	er Backfill		
determined after	To groundwater	NA		h grout.	J. Duckiii		
planning meeting and			1416	11 9.000.			
site visit							
							
	<u>-</u>						
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13k Attach a map showin	ng proposed drilling locat	ions: (combine v	<u>with other r</u>	naps where appropr	iate)		
14 PROPERTY OWNER							
^{14a} Name:	14b Address:			14c Phone	14d		
Name:	Address:			Number:	LUA?		
Johnnie Perry 4172-A US Hwy 117 South Alternate			e	919-734-8455	Yes		
Ricky Young 4172 US Hwy 117 South Alter					No		
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i the Affach a man idei	ntitying property owners. <i>(com)</i>	bine with other maps where approp	riate)

REQUEST FOR INVESTIGATION

15 HEALTH AND SAFETY INFORMATION (please provide only site-specific information)								
15a Chemical exposure potential (on-site chemical storage, drums, pesticides, fuel tanks, etc.):								
Chemical exposure potential for site elemical storage, drams, pesticides, raci tamo, etc.).								
None								
15b Type of Contamination Expected (list substances or compounds, if known):								
Type of contamination Expansion (not observed or composition)								
Petroleum constituents, particulary MtBE (detected at concentrations below the 2L standard).								
^{15c} Site Specific Issues or Concerns (access, noise, general hazards, utilities, traffic, etc.):								
,								
To be determined after planning meeting and site visit.								
^{15d} Biological exposure potential (on-site poisonous plants and animals, other wild animals, etc.):								
To be determined after planning meeting and site visit.								
15e Required safety equipment: Modified Level D								
□ Hard hat □ Gloves <u>nitrile</u>								
□ Steel toe boots □ PID/OVA								
□ Hearing Protection □ Other (specify)								
15f pt. 1 1/ Let 1-1/ - 1: let 1-1 avec up a partiel (or eith review lines, one ditches or transfes, water								
15f Physical/electrical/radiological exposure potential (on-site power lines, open ditches or trenches, water								
bodies, heavy traffic, farm machinery, temperature extremes, etc.):								
To be determined after planning meeting and site visit.								
to be determined after planning meeting and site visit.								
15g Name and address of nearest hospital:								
Wayne Memorial Hospital								
2700 Wayne Memorial Drive								
Goldsboro, NC 27534								
Map attached								
^{15h} Emergency facility phone number: emergencies 911, non-emergencies (919) 736-1110								
911 service available: yes								
¹⁵ⁱ Attach a map indicating location and route to nearest hospital: see site location map								
Account a map managing receipt and reace to men out mapping.								

REQUEST FOR INVESTIGATION

15j Health and Safety Plan Site Meeting Sign-Off Sheet						
Signature	Date					
	·					
						

REQUEST FOR INVESTIGATION

¹⁶ ADDITIONAL INFORMATION (Site description, site specific issues, narrative, etc.)	

REQUEST FOR INVESTIGATION (RFI)

<u>Che</u>	<u>ck</u>	Lis	st <u> </u>	<u>for</u>	Rec	uest	for	Investic	<u>ratio</u>	n Sul	omi	issi	on:

Verify that the RFI package contains the following applicable items. Incomplete submittals will cause delays in processing of RFI package.

	1	F	o	r	T	1	1	S	:
--	---	---	---	---	---	---	---	---	---

- ☐ Transmittal memo from/through Regional Supervisor to Central Office requesting the investigation ☐ Completed Request for Investigation form and checklist
- Pollution Incident Reporting Form (PIRF)
- Site Health and Safety Planning Form
- □ Signed Land Use Agreements (LUA) for properties to be included in the investigation
- □ Documentation of RFI Planning Meeting (brief summary, time, date, personnel present, etc.)

Division of Responsibility:

Develop Scope of Work	 Region 	 Central
Secure Land Use Agreements	□ Region	Central
Coordinate with Driller	□ Region	□ Central
Perform Preliminary Site Visits	□ Region	 Central
GPS and/or Survey	□ Region	Central
Evaluate Data	□ Region	 Central
Perform Draft Project Report	□ Region	Central
Review Project Report	□ Region	Central
Finalize Project Report	□ Region	Central

Maps*:

- p.Local site/area map showing affected properties with owner's name(s), location of existing well(s), and proposed drilling locations (county tax map or an aerial photo are preferred, although a neatly hand drawn map is acceptable).
- □ Include written directions to site from a nearby well known landmark or primary road intersection.
- □ Regional map showing directions to site from main highway or other major artery (please use one of the following: USGS 7.5' quad, DOT county road map, NC Atlas & Gazetteer 1:150,000 scale map)
- □ Directions, phone number, and location map for the nearest hospital
- * Combine maps where possible and appropriate

Supporting Information:

- □ Laboratory report(s) of previous sampling and testing
- □ Well construction records of existing monitoring wells
- □ Well construction data for affected private supply wells (type, installation date, total depth, casing depth, screened interval(s), well logs, etc.)
- □ References to existing investigations, reports, etc,
- □ Other supporting information available in the Regional Office but not included in this RFI package (please list): _____

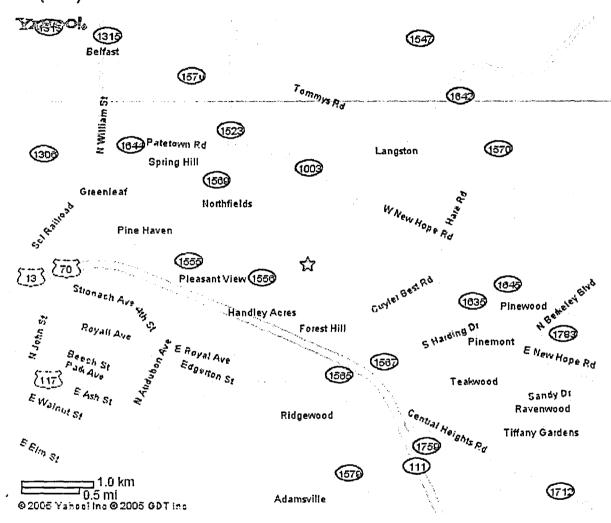
Signature of person verifying review and completeness of attached RFI p	ackage:
Signature of person verifying review and completeness of attached RFI p	Date 2-16-2000

Yahoo! My Yahoo! Mail Yahoo! LOCAL Sign In Sign Up

Search the Web Searc Maps Home - Maps Beta - J

Yahoo! Maps - Goldsboro, NC 27534-9494

« Back to Map



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

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<u>Privacy Policy</u> - <u>Terms of Service</u> - <u>Copyright/IP Policy</u> - <u>Yahoo! Maps Terms of Use</u> - <u>He</u> <u>Ad Feedback</u> Please return to:

Carrie Stone

DWO-Washington Regional Office 943 Washington Square Mall Washington, NC 27889

SUBJECT: Agreement for the Use of a Site for a Groundwater Investigation.

Site Identification:

Perry Property

Parcel #2585680064 & #2585670878 4172-A US Hwy 117 Alternate South Dudley, Wayne County, North Carolina

28 WASHINGTON REGIO

Dear Ms. Stone:

I am (We are) the owner(s) of the parcel of property as described herein and do hereby grant permission for the Department of Environment and Natural Resources (referred to as the Department) to enter upon the groundwaters under the authority of G.S.-143-215.3(a)2, including access to and permission to install monitoring wells to collect samples in association with the above listed property.

I am (We are) granting permission with the understanding that:

- 1. The Aquifer Protection Section of the Department's Division of Water Quality shall conduct the investigation.
- 2. The costs of construction and maintenance of monitoring wells at the site and access shall be borne by the Department. The Department shall protect and prevent damage to the surrounding lands.
- 3. Unless otherwise agreed, the Department shall have access to the site by the shortest feasible route to the nearest public road. The Department may enter on the land at reasonable times and have full right of access during the period of investigation.
- 4. At the end of the investigation, unless otherwise provided for by prior written agreement, the Department shall remove from the site all structures placed or erected by it and shall permanently abandon all wells constructed by
- 5. Any claims that may arise against the Department shall be governed by Article 31 of Chapter 143 of the North Carolina General Statutes, Tort Claims Against State Departments and Agencies, and as otherwise provided by law.
- 6. The information derived from the investigation shall be made available to the owner on request and is a public record, in accordance with G.S. 132-1 et seq.
- 7. The activities carried out by the Department are for the primary benefit of the Department and of the State of North Carolina and any benefits accruing to the owner are incidental. The Department is not and shall not be construed to be an agent, employee, or contractor of the owner of the land.

I/We agree not to interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

Sincerely,

Signature(s):

Print Name(s):

te rru

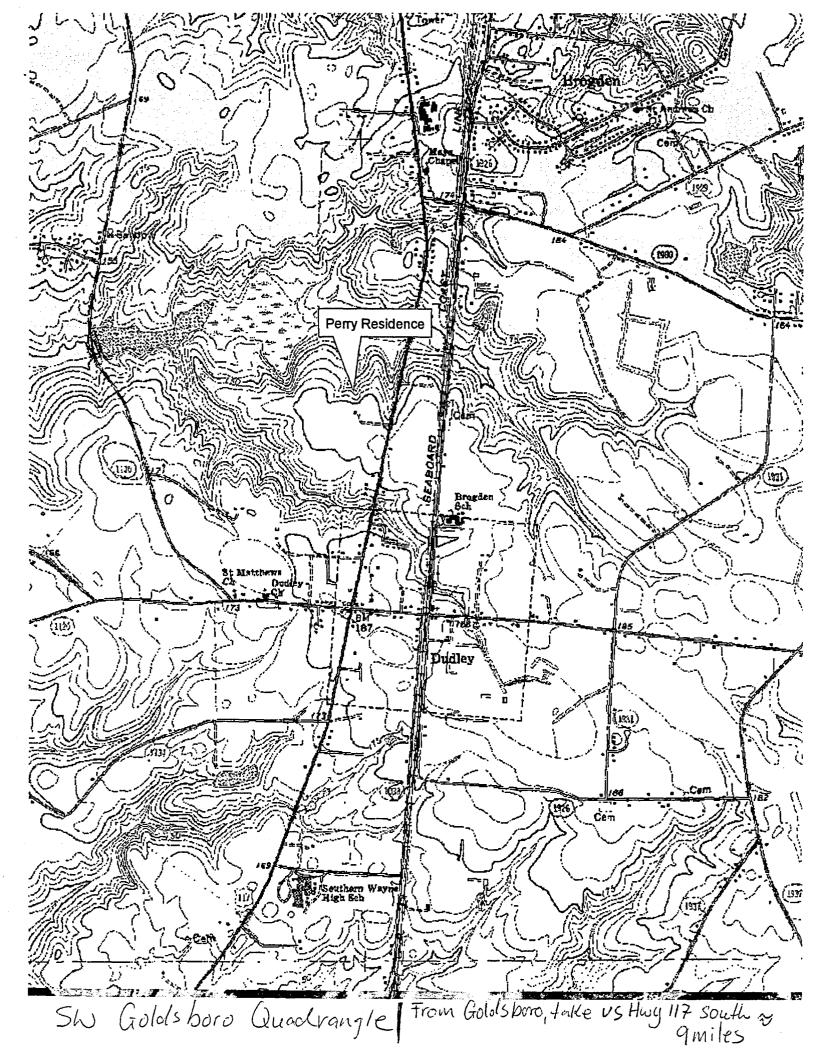
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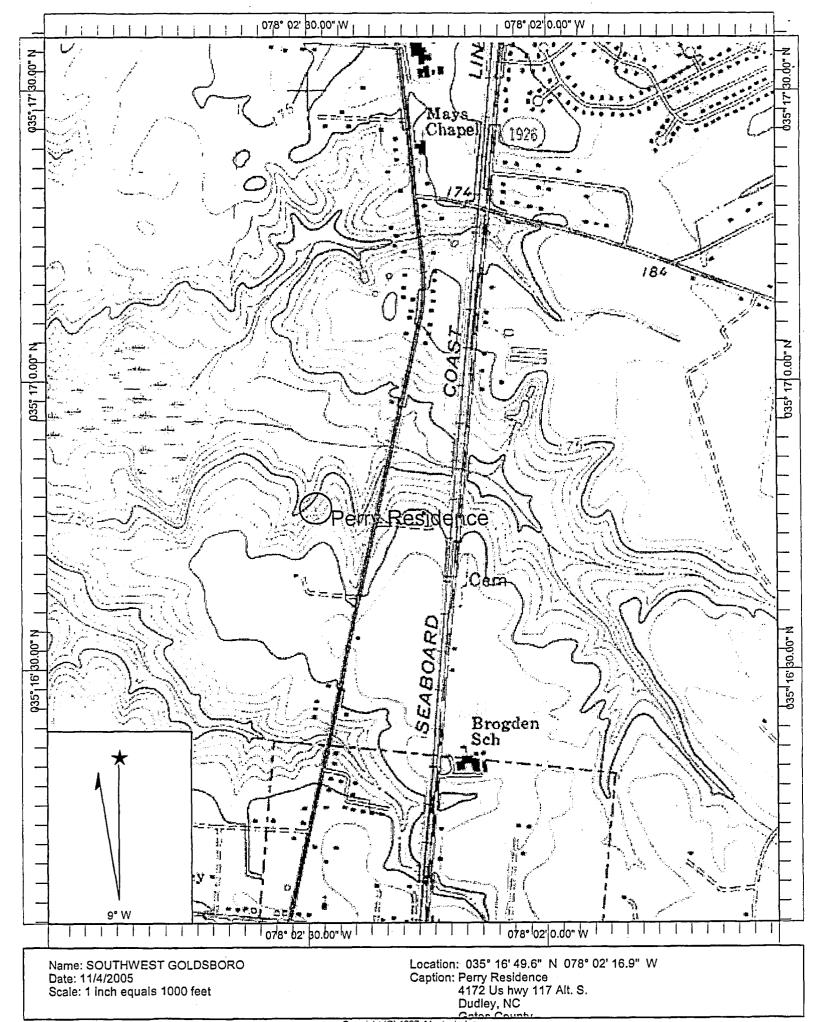
Phone Number: 919.734.8455

Address:

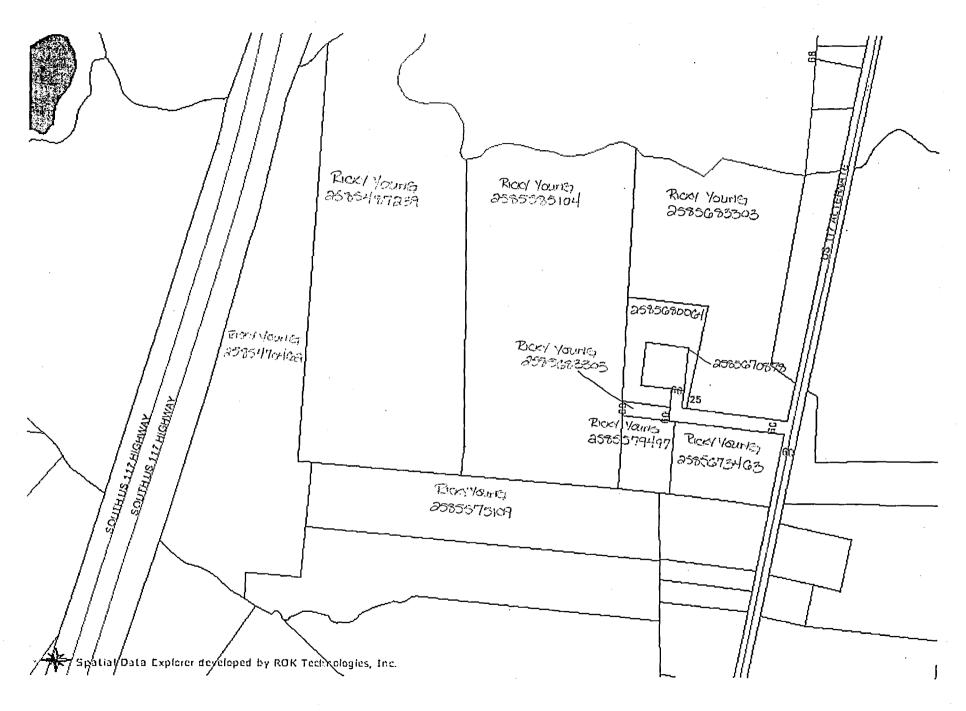
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Incident Number	87538	Site	Priority //	etti ja tai tulki ja muulilajatan, tai esangenere			
Incident Name	Perry Residence/Yo	oung's Auto					
Incident Address	4172 US Hwy 117	Alternate S.					
Incident City/Town	Dudley	Inc	ident Zip	28333			
County	Wayne						
RO Contact	Rose Ballance						
Responsible Party	Information						
RP Contact	Young, Ricky						
RP Company	Young's Auto Cente	er & Salvage					
RP/Address	4172 US 117 Alter	nate S.					
RP City	Dudley	RI	State	North Carolina			
RP Zip	28333						
RP Phone	9196317979						
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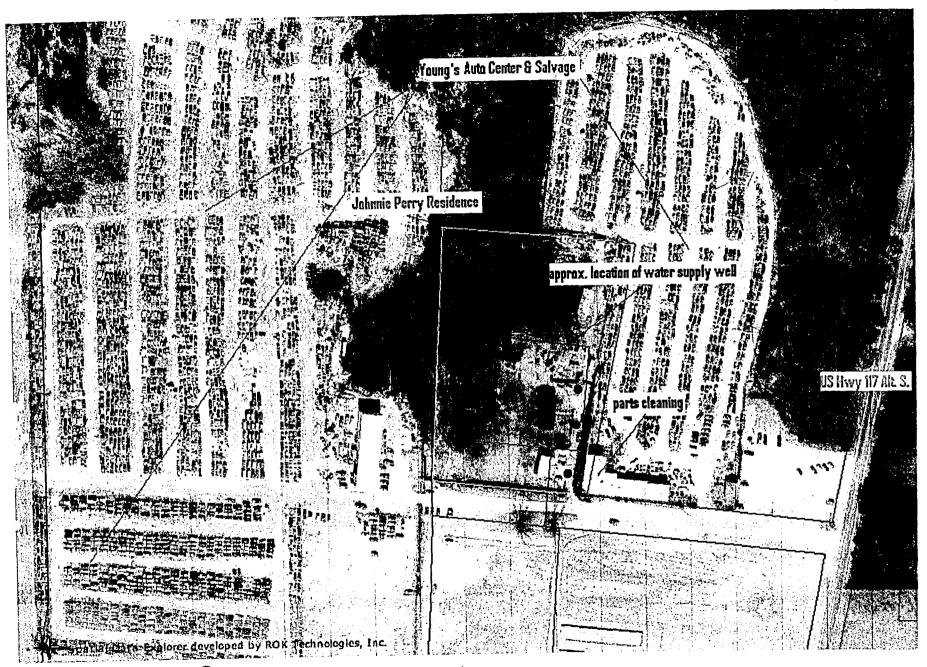
Comments									
and the same and t									
Wayne County Env. Health Dept. sampled water supply well at a residence owned by Mr. Johnnie Perry. Sample results indicated presence of MTBE at levels of 0.8 ppm. Aquifer Protection Section staff was notified and resampled on 9/27/2005. Results were confirmed. Requesting Field Investigation Unit assistance in									
Results were confirmed. Requesting Field Investigation Unit assistance in determining RP. Perry Residence is located in the middle of approx. 90 acres of property owned by Ricky Young used for Young's Auto Center & Salvage.									
	·								





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· Proposed Sample Location (estimated). Exact locations to be determined after planning meeting and cusite visit.

To: David May

N.C. Department of Health and Human Services Division of Public Health

PETROLEUM PRODUCTS

State Laboratory of Public Health

P.O. Box 28047, 306 N. Wilmington St., Raleigh, NC 27611-8047

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	20-06	Bo	GLIFE	N DT	UD VECIMS
ale Extracted:	CANAL P		Date Analyzed: 4-30	05 10 9	-8-05-119
			Reported By:	le A Da	el mil
TT10 T					

DHHS Form 2364 Laboratory (Rev.06/99) F_salipt

DIVISION OF HEALTH AND HUMAN SERVICES STATE LABORATORY OF PUBLIC HEALTH PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

Purgeable Organic Compounds by Gas Chromatography/Mass Spectrometry

LABORATORY # 052721

COMPOUND	NOL	μg/L	COMPOUND	MDL	rg/L
Chioromethane	2.0 pg/L	u	1,2-Dichloropropane	0.5 μg/L	11
Vinyl Chloride	2.0 µg/L		Diffromomethane	0.5 µg/L	1
Bromomethane	2.0 µg/L		Bromodichloromethane	0.5 µg/L	1
Chlorocthane	2.0 µg/L		cls-1,3-Dichloropropene	0.5 µg/L	 -
Tricularofluoromethane	2.0 µg/L		4-Methyl-2-Pentanone	0.5 µg/L	
1.1-Dichloroethene	0.5 µg/L		Toluene	0.5 µg/L	
Acctone	1/8m 08		trans-1,3-Dichloropropeue	0.5 μg/L	
lodomethane	0.5 µg/L		1.1.2-Trichtorocthane	0.5 µg/L	
Carbon Disulfide	0.5 μg/L		Tetrachlaroethene	0.5 µg/L	
Methylene Chloride	0.5 μg/L		2-Hexanone	0.5 µg/L	
Acrylonitrile	0.5 pwl		Dibromochloromethane	0.5 μg/L	
trans-1.2-Dichloroethene	0.5 µg/L ·	2/	Ethylene Dibromide	0.5 µg/L	
Methyl-t-Butyl-Ether	0.5 µg/L	0.8	Chlarobenzene	0.5 µg/L	
1.1-Dichlorocthane	0.5 μg/L	u	I,I.I,Z-Tetrachioroethane	0.5 μg/L	
Isopropyl Ether	0.5 µg/L	1	Ethyl Benzene	0.5 µg/L	
cis-1,2-Dichloroethene	0.5 µg/L		Xylones.	0.5 µg/L	
2-Butanone	2.0 µg/L		Styrene	0.5 μg/L	- -
Tetrahydrofurun	2.0 μg/L		Branioform	0.5 µg/L	
Chloroform	0.5 μg/L	·	1,1.2,2-Tetrachioroethane	0.5 µg/L	
1.1.1-Trichloroèthane	0.5 µg/L		1,2,1-Trichloropropane	0.5 µg/L	
Carbon Tetrachloride	0.5 µg/L		1,4-Dichlorobenzene	0.5 µg/L	
Benzene	0.5 µg/L		1,2-Dichlorohenzene	0.5 µg/L	
1.2-Dichloroethanc	0.5 µg/L		1.2-Dibromo-3-Chloropropane	2.0 μg/L	
Prichloroethène	0.5 µg/L	1			₩

ence - detected, but less than MDL MDL=Minimum Detection Limit

- Rossible lab contamination or background
- Ensible lab contamination or background
- Estimated Value
- Actual value is known to be less than value given.
- Actual value is known to be greater than value given.
- Naterial was analyzed for but not detected. The number is the Minimum Detection Limit,
- Tentative identification.
- Sample diluted, MDLs do not apply.

9197051815

DIVISION OF HEALTH AND HUMAN SERVICES STATE LABORATORY OF PUBLIC HEALTH PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

Purgeable Organic Compounds by Gas Chromatography/Mass Spectrometry

LABORATORY # 052722 COMPOUND MDL HR/L COMPOUND MOL .Chloromethane 2.0 µg/L 1,2-Dichleropropane $0.5 \mu g/L$ Vinyl Chloride 2.0 µg/L Dibromomethane 0.5 µg/L Bromomethane 2.0 µg/L Bromodichioromethane $0.5 \, \mu g/L$ Chlorocthane 2.0 µg/L cis-1,3-Dichloropropene $0.5 \, \mu g/L$ Trichlarofluoromethane 2.0 µg/L 4-Methyl-2-Pentanone 0.5 µg/L 1.1-Dichlaroethene 0.5 µg/L Toluene 0.5 µg/L Acctone 80 mg/g trans-1,3-Dichlarapropene 0.5 pg/L lodomethane $0.5 \, \mu g/L$ 1,1,2-Trichloroethane 0.5 µg/L Carbon Disulfide 0.5 µg/L Tetrachloroethene 0.5 µg/L Methylene Chloride $0.5 \, \mu g/L$ 2-Hexanone 0.5 µg/L Acrylonitrile 0.5 µg/L Dibromochloromethane $0.5 \mu g/L$ trans-1,2-Dichlorocthene $0.5 \, \mu g/L$ Ethylene Dibromide 0.5 µg/L Methyl-t-Butyl-Ether 0.5 µg L Chlorobenzene 0.5 µg/L 1.1-Dichloroethane 0.5 µg/L 1,1.1.2-Tetrachloroethane $0.5 \, \mu g/L$ Isopropyl Ether 0.5 µg/L Ethyl Benzene 0.5 µg/L cis-1,2-Dichloroethene $0.5\,\mu g/L$ Xylenes 0.5 µg/L 2-Butanone 2.0 µg/L Styrene 0.5 µg/L Tetrahydrofuran 2.0 µg/L Bromoform 0.5 µg/L Chloroform $0.5 \, \mu g/L$ 1,1,2,2-Tetrackloroethane $0.5 \mu g/L$ 1,1.1-Trichloroethane 0.5 µg/L 1,2,3-Trichloropropane 0.5 µg/L Carbon Tetrachloride 0.5 µg/L L4-Dichlorobenzene 0.5 µg/L Benzene 0.5 µg/L 1,2-Dichlorobenzene 0.5 µg/L 1,2-Dichloroethane $0.5~\mu g/L$ 1,2-Dibromo-3-Chloropropane 2.0 µg/L Trichloroethene 0.5 µg/L , ; ;

trace - detected, but less than MDL MDL=Minimum Detection Limit

~ Possible lab contamination or background

... Estimated Value

1

- Actual value is known to be less than value given.

Actual value is known to be greater than value given,

Material was analyzed for but not detected. The number is the Minimum Detection Limit.

-Tentative Identification.

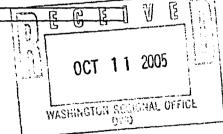
-Sample diluted. MDLs do not apply.

TRIP BLANK (DATE: 8-9.05

DIVISION OF WATER QUALITY

Chemistry Laboratory Report / Ground Water Quality

COUNTY: QUAD NO: REPORT TO: COLLECTOR(S): DATE: TIME: PURPOSE:	WARO C STONE 9/27/2005 10:30 COMPLAINT	- .	owner: Location or Site: Description of sampling poin Sampling Method: Remarks:	Time Received : 9:00 AM Received By : PS Released By : JSW Date reported : 10/6/2005					
LABORATO	ORY ANALYSIS	mg/L	Diss. Solids 70300	mg/L		Ag-Silver 46566	ug/L,		Organochlorine Pesticides
COD High 340	0	mg/L	Fluoride 951	mg/L	<u> </u>	Al-Aluminum 46557	ug/L_	\vdash	Organophosphorus Pesticides
COD Low 335	5	mg/L	Hardness: total 900	mg/L	\vdash	As-Arsenic 46551	ug/L	-	Nitrogen Pesticides
Coliform: MF	Fecal 31616	/100ml	Hardness: (non-carb) 90		<u>_</u>	Ba-Barium 46558	ug/L	\vdash	
Coliform: MF	Total 31504	/100ml	Phenois 32730	ug/L	 -	Ca-Calcium 46552	mg/L	1	Acid Herbicides
тос		mg/l	Specific Cond. 95	umhos/cm2	\vdash	Cd-Cadmium 46559	ug/L	\vdash	
Turbidity		NTU	Sulfate	mg/L	<u> </u>	Cr-Chromium 46560	ug/L	X	
Residue., Susp	ended 530	mg/L	Sulfide 745	mg/L	 _	Cu- Copper 1042	ug/L	<u> </u>	TPH-Diesel Range
Total Suspende	ed solids	mg/L.	MBAS	mg/L	<u> </u>	Fe- Iron 1045	ug/L_	\vdash	 _ _
			Oil and Grease	mg/L	-	Hg- Mercury 71900	ug/L_	X	Volatile Organics (VOA bottle)
pH		units	Silica	mg/L	<u> </u>	K-Potassium 46555	mg/L	-	 _ _ _ _ _ _ _ _ _
Alkalinity to p	H 4.5	mg/L	Boron		<u> </u>	Mg- Magnesium 927	mg/L	\vdash	TPH-Gasoline Range
Alkalinity to p	H 8.3	mg/L	Formaldehyde	mg/L	<u> </u>	Mn-Manganese 1055	ug/L	<u> </u>	TPH-BTEX Gasoline Range
Carbonate		mg/L	NH3 as N 610	mg/L	<u> </u>	Na- Sodium 929	mg/L	\vdash	
Bicarbonate		mg/L	TKN as N 625	mg/L	<u> </u>	Ni-Nickel	ug/L_	\vdash	
Carbon dioxid	<u>e</u>	mg/L	NO2 +NO3 as n 630	mg/L	<u> </u>	Pb-Lead 46564	ug/L,	-	
Chloride		mg/L	P: Total as P 665	mg/L	<u> </u>	Se-Selenium	ug/L	\vdash	
Chromium: He	ex 1032	ug/L.	PO4	mg/L	 	Zn-Zinc 46567	ug/L	\vdash	
Color: True 80) 	c.u.	Nitrate (NO ₃ as N) 620	mg/L	`	ļ		\vdash	<u> </u>
Cyanide 720		mg/L	Nitrite (NO ₂ as N) 615	mg/L	L	L		L	<u></u>
COMMENTS:									



Lab Number: 5G2372

Date Received: 9/28/2005

5G2372

County Water Sample PRIORITY Quad No Scrial No. Scrial	Lab Number 29010
Lat Long	Date Received 38/05 time: 250D Rec'd By: 05 From: Bus Courier Hand Del., Other: Ck:
WSRO, Kinslon FO, Fed. Trust, Central Olf., Other: Shipped by: Bus, Courier Hand Del., Other: Collector(s): 0.5TONE Date 9-27-05 Time 10:30 Baseling Complaint Owner PEDIN RESIDENCE FIELD ANALYSES	13 YOE SPICTOT (FRONT OF LOUSE) Sample Interval AFTOR IS MINIPLIMP TIN
LABORATORY ANALYSES Disa, Solida 70300 mg/L Ag-Silver 46566	(Pumping time, air temp., etc.) ug/L Organischloitne Pesticides
COD High 340 mg/L Fluoride 951 mg/L Al-Aluminum 4655	57 ug/L Organophosphorus Pesticides
COD Low 335 tng/L Hardness: Total 900 tng/L As-Avsenic 46551	ug/L Nitrogen Pesticides
Coliform: MF Fecal 31818	ug/L Acid Herbicides
Control in 1 Contr	2 ng/L PCBs
Controller William AGS	559 Ug/L
TOC 680 Fee Chambian 465	559 ug/l. :
Turbidity 70	2 ug/L
Residue, Suspended 530 mg/L Sulfide 745 mg/L Cu-Copper 40302	ug/L Scinivolatile Organics
Off and Grease mg/L Hg-Mercury 7190	0 ug/L TPH-Diesel Rango
II-Polasshra 465	55 ng/L
Ma.Manneshim 4	16554 mg/L
Mn.Mannanese 4	16565 utilt Volatile Organics (VOA bottle)
Alkellully to pH 0.3 415 mg/L NH, ns N 610 mg/L Na-Sodium 4655	G mg/L TPH-Gasoline Range
Bicorbonate 440 mg/L 11(N as N 625 mg/L NI-Nickel	ug/L TPH-BTEX Gasoline it inge
Bicarooniate 440	uyL
Chiorido 940 mg/L P: Total es P 665 mg/L Sc-Scienium	uŋ/L
Chicked 940 Page 48567	uyL
Chromitant Flex 1032 agr.	LAB USE ONLY
Color: Into au	Temperature on autival:
Cypnkle 720 mg/L	
Lab Comments	

ENR/DWQ LABORATORY **VOLATILE ANALYTICAL REPORT**

LAB NO. 5G2372

SUPERVISOR

ENTERED BY _

REPORTED BY CHECKED BY **REVIEWED BY**

SAMPLE TYPE:

WATER

ANALYTICAL RESULTS

		ANALITICAL RESULTS				···10/5/02		
	VOA TARGET COMPOUND	PQL DE	TECTED		VOA TARGET COMPOUND	PQL	DETECTED	
ÇAS#			սց/Լ	CAS#		ug/L	ug/L	
75-71-8	Dichlorodifluoromethane	0.25	U	630-20-6	1,1,1,2-Tetrachloroethane	0.25		
74-87-3	Chloromethane	0.50	Ŭ	75-25-2	Bromoform	0,50		
75-01-4	Vinyl Chloride	0.50	Ü	79-34-5	1,1,2,2-Tetrachloroethane	0.25		
74-83-9	Bromomethane	0.50	Ŭ	96-18-4	1,2,3-Trichloropropane	0.25		
75-00-3	Chloroethane	0.50	Ü	108-86-1	Bromobenzene	0.25		
75-69-4	Trichlorofluoromethane	0.25	Ū	95-49-8	2-Chlorotoluene	0.25		
75-35-4	1,1-Dichloroethene	0.25	Ū	106-43-4	4-Chlorotoluene	0.25		
75-09-2	Methylene Chloride	10	ΰ	541-73-1	1.3-Dichlorobenzene	0.25		
156-60-5	trans-1,2-Dichloroethene	0.25	Ŭ	106-46-7	1.4-Dichlorobenzene	0.25		
75-34-3	1.1-Dichloroethane	0.25	บั	95-50-1	1,2-Dichlorobenzene	0.25		
594-20-7	2,2-Dichloropropane	0.25	Ŭ	96-12-8	1,2-Dibromo-3-Chloropropane	0.50		
156-59-4	cis-1,2-Dichloroethene	0.25	ŭ	120-82-1	1,2,4-Trichlorobenzene	0.25		
67-66-3	Chloroform	0.25	ŭ	87-68-3	Hexachlorobutadiene	0.25		
74-97-5	Bromochloromethane	0.25	Ü	87-61-6	1,2,3-Trichlorobenzene	0.25		
71-55-6	1,1,1-Trichloroethane	0.25	Ü	1634-04-4	Methyl-tert-butyl ether	0.25	0.80 #, J2	
563-58-6	1,1-Dichloropropene	0.25	Ū	71-43-2	Benzene	0.25		
56-23-5	Carbon Tetrachloride	0.25	Ü	108-88-3	Toluene	0.25		
107-06-2	1,2-Dichloroethane	0.25	Ü	100-41-4	Ethyl benzene	0.25		
79-01-6	Trichloroethene	0.25	Ū	108-38-3	m,p-Xylenes	0.50		
78-87-5	1,2-Dichloropropane	0.25	υ	95-47-6	o-Xylene	0.25		
75-27-4	Bromodichloromethane	0.25	υ	100-42-5	Styrene	0.25		
74-95-3	Dibromomethane	0.25	Ü	98-82-8	Isopropylbenzene	0.25		
10061-01-5	cis-1,3-Dichloropropene	0.25	บ	103-65-1	n-Propylbenzene	0.25		
10061-02-6	trans-1,3-Dichloropropene	0.25	Ü	108-67-8	1,3,5-Trimethylbenzene	0.25		
79-00-5	1,1,2-Trichloroethane	0.25	Ū	98-06-6	tert-Butylbenzene	0.25		
127-18-4	Tetrachloroethene	0.25	Ù	95-63-6	1,2,4-Trimethylbenzene	0.25		
142-28-9	1,3-Dichloropropane	0.25	Ū	135-98-8	sec-Butylbenzene	. 0.25		
124-48-1	Dibromochloromethane	0.25	บ	99-87-6	p-isopropyltoluene	0.25		
106-93-4	1.2-Dibromoethane	0.25	Ū	104-51-8	n-Butylbenzene	0.25		
108-90-7	Chlorobenzene	0.25	Ü	91-20-3	Naphthalene	0.25		
			· · · · · · · · · · · · · · · · · · ·			mg/L	mg/L	
PQL	Practical Quantitation Limit- Subject to			Gasoline Range E	stimated Total Petroleum Hydrocarbon	0.20		
	change due to instrument sensitivity			Other purpos his	dotagtad	801	Detected	
N-	Tentatively Identified, not confirmed			Other purgeables			ug/L	
J. U.	Estimated Value	l not detected		(up to 10 highest p	Dedroj		uyıL	
_	Samples analyzed for this compound bu	i noi detected						
Х-	Sample not analyzed for this compound							
N3-	Estimated concentration is <pql and="">N</pql>	NDL .						
#	GC/MS Analysis performed							

ENR/DWQ LABORATORY SEMIVOLATILE ANALYTICAL REPORT

ANALYTICAL RESULTS

LAB NO. 5G2372

SUPERVISOR

DATE /

ENTERED BY JSW

DATE 1016

SAMPLE TYPE:

REPORTED BY CHECKED BY REVIEWED BY

WATER

	SEMIVOLATILES	PQL DET	ECTED		SEMIVOLATILES		ETECTED
CAS#	TARGET COMPOUND	ug/L i	ug/L,	CAS#	TARGET COMPOUND	ug/L	ug/L
62-53-3	ANILINE	10	U	606-20-2	2,6-DINITROTOLUENE	10	U
108-95-2	PHENOL	10	U	99-09-2	3-NITROANILINE	50	U
111-44-4	BIS(2-CHLOROETHYL) ETHER	10	U .	83-32-9	ACENAPHTHENE	10	U
95-57-8	2-CHLOROPHENOL	10	υ	51-28-5	2,4-DINITRO PHENOL	50 J2	U
541 - 73-1	1.3-DICHLOROBENZENE	10	U	100-02-7	4-NITRO PHENOL	50	U
106-46-7	1.4-DICHLOROBENZENE	10	U	132-64-9	DIBENZOFURAN	10	ប
100-51-6	BENZYL ALCOHOL	20	U	121-14-2	2,4-DINITROTOLUENE	10	U
95-50-1	1.2-DICHLOROBENZENE	10	υ	84-66-2	DIETHYL PHTHALATE	10	บ
95-48-7	2-METHYL PHENOL	10	U	7005-72-3	4-CHLOROPHENYL PHENYL ETHE	10	U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	10	U	86-73-7	FLUORENE	10	U .
106-44-5	4-METHYL PHENOL	10	υ	100-01-6	4-NITROANILINE	50	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10	U	534-52-1	4,6-DINITRO-2-METHYL PHENOL	50	Ų
67-72-1	HEXACHLOROETHANE	10	U	86-30-6	N-NITROSODIPHENYLAMINE	10	U
98-95-3	NITROBENZENE	10	U	101-55-3	4-BROMOPHENYL PHENYL ETHEI	10	u
78-59-1	ISOPHORONE	10	U	118-74-1	HEXACHLOROBENZENE	10	
88-75-5	2-NITRO PHENOL	10	U	87-86-5	PENTACHLORO PHENOL	50	ι
105-67-9	2.4-DIMETHYL PHENOL	10	U	85-01-8	PHENANTHRENE	10	ι
65-85-0	BENZOIC ACID	50 J2	U	120-12-7	ANTHRACENE	10	t
111-91-1	BIS(2-CHLOROETHOXY) METHANE	10	ប	84-74-2	DI-N-BUTYL PHTHALATE	10	ŧ
120-83-2	2.4-DICHLORO PHENOL	10	υ	206-44-0	FLUORANTHENE	10	ι
120-63-2	1.2.4-TRICHLOROBENZENE	10	· U	129-00-0	PYRENE	10	(
91-20-3	NAPHTHALENE	10	U	85-68-7	BUTYLBENZYL PHTHALATE	10	ŧ
106-47-8	4-CHLOROANILINE	20	U	91-94-1	3,3'-DICHLOROBENZIDINE	20 J2	ι
87-68-3	HEXACHLOROBUTADIENE	10	U	56-55-3	BENZO(A)ANTHRACENE	10	t
59-50-7	4-CHLORO-3-METHYL PHENOL	20	U	218-01-9	CHRYSENE	10	ŧ
91-57-6	2-METHYL NAPHTHALENE	10	U	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	10	t I
77-47-4	HEXACHLOROCYCLOPENTADIENE	10	U	117-84-0	DI-N-OCTYL PHTHALATE	10 10	,
88-06-2	2,4,6-TRICHLORO PHENOL	10	U	205-99-2	BENZO(B)FLUORANTHENE	10	ï
95-95-4	2,4,5-TRICHLORO PHENOL	10	U	207-08-9	BENZO(K)FLUORANTHENE BENZO(A)PYRENE	10	
91-58-7	2-CHLORO NAPHTHALENE	10	Ü	50-32-8	INDENO(1,2,3-CD)PYRENE	10	ì
88-74-4	2-NITROANILINE	50	ប ប	193-39-5 53-70-3	DIBENZO(A,H)ANTHRACENE	10	(
131-11-3	DIMETHYL PHTHALATE ACENAPHTHYLENE	10 10	U	191-24-2	BENZO(G,H,I)PERYLENE	10	1

SEMIVOLATILE ORGANICS REPORT - DWQ LAB PAGE 2

Other Semi-Volatiles compounds detected (up to 30 highest peaks)	Detected ug/L	
No base/neutral or acid extractable organic compounds		
detected by gc/ms.		
		PQL- Practical Quantitation Limit- Subject to change due to instrument sensitivity
		U- Samples analyzed for this compound but not detected
		J- Estimated value
		J2- The reported value failed to meet the established quality control criteria for either precision or accuracy.
		N1- The component has been tentatively identified based
		on mass spectral library search and has an estimated value.
		N3- Estimated concentration less than the laboratory PQL limit and greater than the laboratory method detection limit.
		A- Value reported is the average of two or more determinations.
		P- Elevated PQL due to matrix interfernece and/or sample dilution
		- -
COMMENTS:		

DIVISION OF WATER QUALITY

Aquifer Protection Section

November 14, 2005

Mr. Johnnie Perry 4172 A US Highway 117 Alternate South Dudley, North Carolina 28333

RE: Site Access Agreement

4172-A US Hwy 117 Alternate South. Dudley, Wayne County, North Carolina

Dear Mr. and Mrs. Perry:

The Washington Regional Office Aquifer Protection Section received the Groundwater Sampling Results Notification Report for the above referenced site on dated October 11, 2005. The report indicates that methyl-tert-butyl ether (MTBE) was detected in small amounts in the water supply well at your residence at a concentration below the 15A NCAC 2L groundwater standard of 0.2 milligrams per liter (mg/l).

In response to confirmed contamination of a potential water supply aquifer, this office is conducting a groundwater quality investigation to determine the source and/or extent of contamination. Under the provisions of G.S. 143-215.3, the Groundwater Section has been authorized to conduct such investigations. During the investigative process, it will be necessary that we perform a subsurface assessment and collect groundwater samples from your property. Your cooperation and assistance in this matter would be greatly appreciated.

With your permission, the Field Investigations Unit of the Aquifer Protection Section will perform a preliminary site investigation, in which groundwater samples will be collected from the surficial and/or confined aquifer. Samples will likely be procured by a geoprobe drilling machine by constructing a temporary wells. Immediately following sample collection, the temporary wells will be abandoned by removing all screen and casing, plugging the boring with bentonite, and backfilling to existing grade with soil cuttings and sand. Please sign and return the attached agreement form signifying that this office has your permission to proceed with our investigation on your property.

Additionally, pending the results of the preliminary investigation, this office may conduct a hydrogeological assessment of confined aquifers in the area around, and including, your property. This portion of the characterization may require the installation of permanent wells. If further investigation is required of confined aquifers, a separate request for site access will be submitted to you at a later date.

Mr. Perry November 14, 2005 Page 2

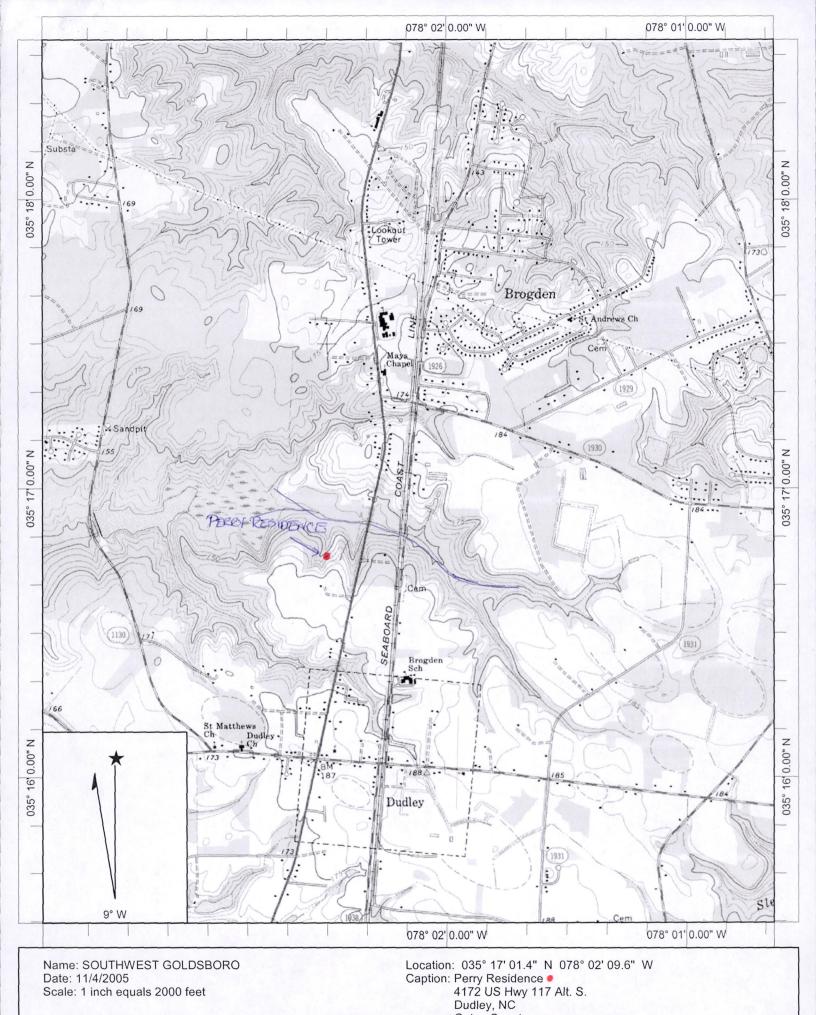
Should you have any questions or require additional information concerning this matter, please contact either me or Carrie Stone at (252) 948-3847.

Sincerely,

David May, L.G. Aquifer Protection Supervisor Washington Regional Office

cc: WaRO

DM/cs



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Michael F. Easley, Governor



William G. Ross Jr., Secretary North Carolina Department of Environment and Natural Resources

> Alan W. Klimek, P.E. Director Division of Water Quality

DIVISION OF WATER QUALITY

Aquifer Protection Section November 14, 2005

Mr. Johnnie Perry 4172 A US Highway 117 Alternate South Dudley, North Carolina 28333

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The Washington Regional Office Aquifer Protection Section received the Groundwater Sampling Results Notification Report for the above referenced site on dated October 11, 2005. The report indicates that methyl-tert-butyl ether (MTBE) was detected in small amounts in the water supply well at your residence at a concentration below the 15A NCAC 2L groundwater standard of 0.2 milligrams per liter (mg/l).

In response to confirmed contamination of a potential water supply aquifer, this office is conducting a groundwater quality investigation to determine the source and/or extent of contamination. Under the provisions of G.S. 143-215.3, the Groundwater Section has been authorized to conduct such investigations. During the investigative process, it will be necessary that we perform a subsurface assessment and collect groundwater samples from your property. Your cooperation and assistance in this matter would be greatly appreciated.

With your permission, the Field Investigations. Unit of the Aquifer Protection Section will perform a preliminary site investigation, in which groundwater samples will be collected from the surficial and/or confined aquifer. Samples will likely be procured by a geoprobe drilling machine by constructing a temporary wells. Immediately following sample collection, the temporary wells will be abandoned by removing all screen and casing, plugging the boring with bentonite, and backfilling to existing grade with soil cuttings and sand. Please sign and return the attached agreement form signifying that this office has your permission to proceed with our investigation on your property.

Additionally, pending the results of the preliminary investigation, this office may conduct a hydrogeological assessment of confined aquifers in the area around, and including, your property. This portion of the characterization may require the installation of permanent wells. If further investigation is required of confined aquifers, a separate request for site access will be submitted to you at a later date.

North Carolina Division of Water Quality 943 Washington Square Mall Washington, NC 27889 Internet: h2o.enr.state.nc.us Phone: 252-946-6481 FAX 252-975-3716



Mr. Perry November 14, 2005 Page 2

Should you have any questions or require additional information concerning this matter, please contact either me or Carrie Stone at (252) 948-3847.

Sincerely,

David May, L.G.

Aquifer Protection Supervisor Washington Regional Office

cc:

WaRO

DM/cs

Please return to:

Carrie Stone

DWQ-Washington Regional Office 943 Washington Square Mall Washington, NC 27889

SUBJECT: Agreement for the Use of a Site for a Groundwater Investigation.

Site Identification:

Perry Property

Parcel #2585680064 & #2585670878 4172-A US Hwy 117 Alternate South Dudley, Wayne County, North Carolina

Dear Ms. Stone:

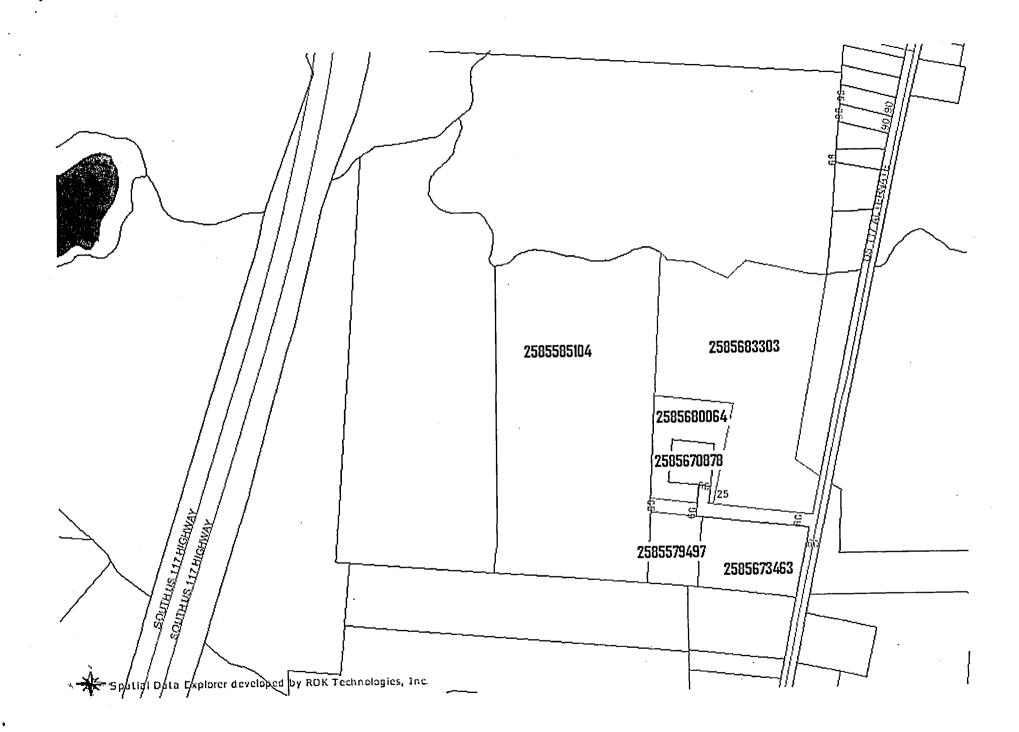
I am (We are) the owner(s) of the parcel of property as described herein and do hereby grant permission for the Department of Environment and Natural Resources (referred to as the Department) to enter upon the groundwaters under the authority of G.S. 143-215.3(a)2, including access to and permission to install monitoring wells to collect samples in association with the above listed property.

I am (We are) granting permission with the understanding that:

- 1. The Aquifer Protection Section of the Department's Division of Water Quality shall conduct the investigation.
- 2. The costs of construction and maintenance of monitoring wells at the site and access shall be borne by the Department. The Department shall protect and prevent damage to the surrounding lands.
- 3. Unless otherwise agreed, the Department shall have access to the site by the shortest feasible route to the nearest public road. The Department may enter on the land at reasonable times and have full right of access during the period of investigation.
- 4. At the end of the investigation, unless otherwise provided for by prior written agreement, the Department shall remove from the site all structures placed or erected by it and shall permanently abandon all wells constructed by it.
- 5. Any claims that may arise against the Department shall be governed by Article 31 of Chapter 143 of the North Carolina General Statutes, Tort Claims Against State Departments and Agencies, and as otherwise provided by law.
- 6. The information derived from the investigation shall be made available to the owner on request and is a public record, in accordance with G.S. 132-1 et seq.
- 7. The activities carried out by the Department are for the primary benefit of the Department and of the State of North Carolina and any benefits accruing to the owner are incidental. The Department is not and shall not be construed to be an agent, employee, or contractor of the owner of the land.

I/We agree not to interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

investigation.	
Sincerely,	
Signature(s):	 Date:
Print Name(s):	 Phone Number:
Address:	







William G. Ross Jr., Secretary North Carolina Department of Environment and Natural Resources

> Alan W. Klimek, P.E. Director Division of Water Quality

DIVISION OF WATER QUALITY Aquifer Protection Section

November 14, 2005

Mr. Ricky Young 4172 US Highway 117 Alternate South Dudley, North Carolina 28333

RE:

Site Access Agreement

4172 US Hwy 117 Alternate South Dudley, Wayne County, North Carolina

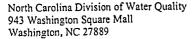
Dear Mr. Perry:

The Washington Regional Office Aquifer Protection Section received the Groundwater Sampling Results Notification Report for the above referenced site on dated October 11, 2005. The report indicates that methyl-tert-butyl ether (MTBE) was detected in a nearby water supply well at concentrations below the 15A NCAC 2L groundwater standard of 0.2 milligrams per liter (mg/l). Low concentrations, even though below 2L standards, could indicate a larger problem in the surrounding area.

In response to confirmed contamination of a potential water supply aquifer, this office is conducting a groundwater quality investigation to determine the source and/or extent of contamination. Under the provisions of G.S. 143-215.3, the Aquifer Protection Section has been authorized to conduct such investigations. During the investigative process, it will be necessary that we perform a subsurface assessment and collect groundwater samples from your property. Your cooperation and assistance in this matter would be greatly appreciated.

With your permission, the Field Investigations Unit of the Aquifer Protection Section will perform a preliminary site investigation, in which groundwater samples will be collected from the surficial and/or confined aquifer. Samples will likely be procured by a geoprobe drilling machine by constructing a temporary wells. Immediately following sample collection, the temporary wells will be abandoned by removing all screen and casing, plugging the boring with bentonite, and backfilling to existing grade with soil cuttings and sand. Please sign and return the attached agreement form signifying that this office has your permission to proceed with our investigation on your property.

Additionally, pending the results of the preliminary investigation, this office may conduct a hydrogeological assessment of confined aquifers in the area around, and including, your property. This portion of the characterization may require the installation of permanent wells. If further investigation is required of confined aquifers, a separate request for site access will be submitted to you at a later date.



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Mr. Young November 14, 2005 Page 2

Should you have any questions or require additional information concerning this matter, please contact either me or Carrie Stone at (252) 948-3847.

Sincerely,

David May, L.G.

Aquifer Protection Supervisor Washington Regional Office

cc: \sqrt{WaRO}

DM/cs

Please return to:

Carrie Stone

DWQ-Washington Regional Office 943 Washington Square Mall Washington, NC 27889

SUBJECT: Agreement for the Use of a Site for a Groundwater Investigation.

Site Identification:

Dear Ms. Stone:

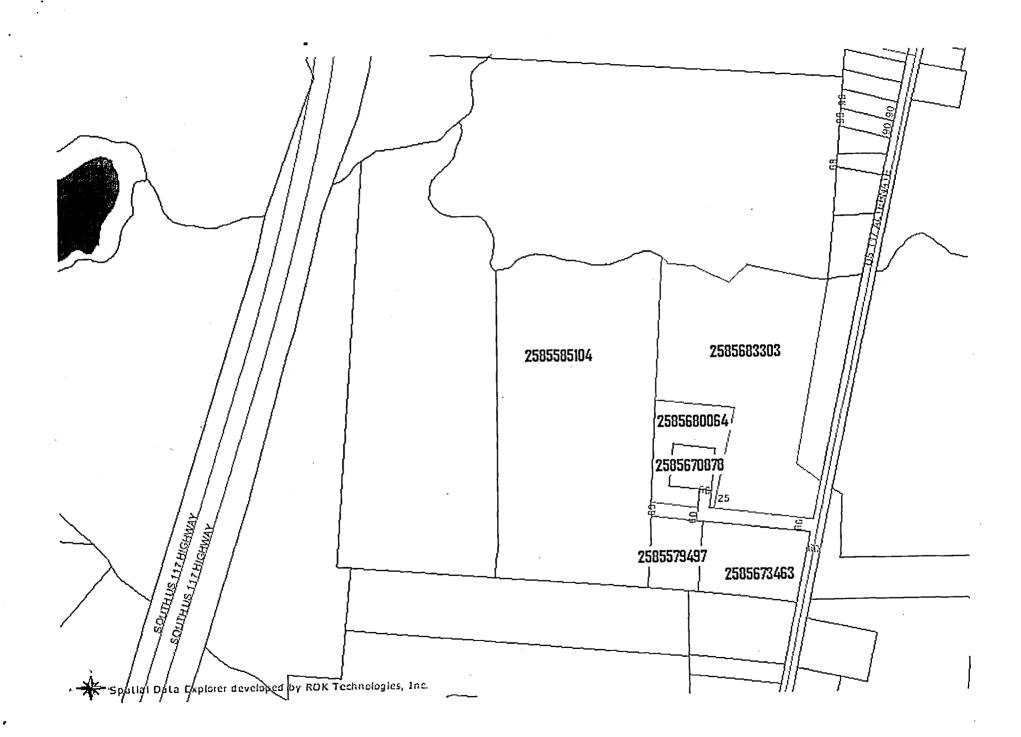
I am (We are) the owner(s) of the parcel of property as described herein and do hereby grant permission for the Department of Environment and Natural Resources (referred to as the Department) to enter upon the groundwaters under the authority of G.S. 143-215.3(a)2, including access to and permission to install monitoring wells to collect samples in association with the above listed property.

I am (We are) granting permission with the understanding that:

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- 2. The costs of construction and maintenance of monitoring wells at the site and access shall be borne by the Department. The Department shall protect and prevent damage to the surrounding lands.
- 3. Unless otherwise agreed, the Department shall have access to the site by the shortest feasible route to the nearest public road. The Department may enter on the land at reasonable times and have full right of access during the period of investigation.
- 4. At the end of the investigation, unless otherwise provided for by prior written agreement, the Department shall remove from the site all structures placed or erected by it and shall permanently abandon all wells constructed by it.
- 5. Any claims that may arise against the Department shall be governed by Article 31 of Chapter 143 of the North Carolina General Statutes, Tort Claims Against State Departments and Agencies, and as otherwise provided by law.
- 6. The information derived from the investigation shall be made available to the owner on request and is a public record, in accordance with G.S. 132-1 et seq.
- 7. The activities carried out by the Department are for the primary benefit of the Department and of the State of North Carolina and any benefits accruing to the owner are incidental. The Department is not and shall not be construed to be an agent, employee, or contractor of the owner of the land.

I/We agree not to interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

Sincerely,		
Signature(s):	 	Date:
Print Name(s):	 ·	Phone Number:
Address:	 	





Subject: RE: Citizen Complaint (Dudley, NC) From: "Evan Kane" <evan.kane@ncmail.net> Date: Mon, 26 Sep 2005 16:13:03 -0400

To: <Mann.Bill@epamail.epa.gov>

CC: <Parker.David@epamail.epa.gov>, <Ellington.Natalie@epamail.epa.gov>, <Marsh.Nancy@epamail.epa.gov>, <Olive.Robert@epamail.epa.gov>, "David May"

<david.may@ncmail.net>

Bill,

Thanks for the information. DENR is already responding to the incident. Our Washington (not Wilmington) Regional Office received a call from Mr. Whitley of the Wayne County Health Department on 9/14/2005 and has scheduled an inspection for next week, during which they will look for potential 1.H. Can contaminant sources, re-sample Mr. Perry's well, and look for (and possibly sample) other water supply wells in the area. I've attached a copy of the complaint report from our database, which provides a basic synopsis and chronology so far.

David May is the Aquifer Protection supervisor of the Washington Regional Office and is receiving a copy of this email. I'll keep you informed of future developments with this site.

Evan

----Original Message----

From: Mann.Bill@epamail.epa.gov [mailto:Mann.Bill@epamail.epa.gov]

Sent: Monday, September 26, 2005 2:11 PM

To: evan.kane@ncmail.net

Cc: Parker.David@epamail.epa.gov; Ellington.Natalie@epamail.epa.gov;

Marsh.Nancy@epamail.epa.gov; Olive.Robert@epamail.epa.gov

Subject: Fw: Citizen Complaint

Evan,

John Mason sent this to the UIC section. Since it deals with NC I thought you needed to know about it. I've taken the liberty of forwarding his message to the EPA Water Programs Enforcement Section. Wanted to give then a heads up on the call.

Bill Mann GW & UIC Section Ground Water/Drinking Water Branch Water Management Division.

John Mason

---- Forwarded by Bill Mann/R4/USEPA/US on 09/26/2005 02:06 PM ----

JohnK Mason/R4/USEPA/U

09/26/2005 12:32

PM

Natalie Ellington/R4/USEPA/US@EPA

Bill Mann/R4/USEPA/US@EPA, Robert

Olive/R4/USEPA/US@EPA

Subject

To

Citizen Complaint

On Friday afternoon, 9/23/05, I received a call from the following individual who provided the information recorded below.

Caller: Johnny Perry, Dudley, N.C. 919-738-1144

Mr. Perry said he owns property in/near Dudley, N.C. that is nearly surrounded by an auto salvage company. He said he installed a private drinking water well on his property in 1979 and the auto salvage business began operation in 1980. The business has a web site @ www.youngsautocenter.com. Since its beginning, the size of the salvage business has multiplied many times and is currently a very large operation. Per Mr. Perry, the salvage company operates a service bay with a floor drain which discharges various automotive fluids, e.g., used motor oil, transmission fluid, antifreeze, etc. directly into the ground.

Mr. Perry was concerned about this well and the well was sampled on 8/26/05 by Mr. Keith Whitley, Wayne County Department of Environmental Health. The sample was shipped to the NCDENR State Lab for analysis. Mr. Perry had a copy of the analytical report and tried to read the results to me but had trouble pronouncing the words. They sounded like an assortment of synthetic organic chemicals. He said he would fax the report to me, but I have not received it yet. He also said Mr. Whitley had referred him to a man in the DENR Regional Office in Wilmington. He couldn't recall his name and couldn't immediately find anything he had written it down on.

Mr. Perry expressed concern over DENR's lack of a response, to date. He is convinced that the salvage business is the source of the contamination in his well.

I told Mr. Perry I would forward his complaint to the appropriate office in EPA. I also explained that his lack of recent information from DENR relative to its response doesn't necessarily mean that an appropriate response isn't underway.

John Mason, Chief Underground Storage Tank Section

U.S. EPA, R4

Phone: 404-562-9441

Fax: 404-562-9439

dudley nc complaint.pdf

Content-Type: application/pdf
Content-Encoding: base64

Perry Residence





Subject: Re: Perry/Young Property Incident #87189 **From:** Rose Ballance <Rose.Ballance@ncmail.net>

Date: Mon, 25 Feb 2008 16:40:40 -0500 To: John Walch <John.Walch@ncmail.net>

RECEIVED

MAR 0 3 2008

DENR-FAYETTEVILLE REGIONAL OFFICE

jOHN,

I just found another folder...with the draft report inside. I'll send everything to you. Sorry

Rose

John Walch wrote:

Okay. Thanks.

Rose Ballance wrote:

John.

I have never received a copy of the draft report. Mike Cunningham would hopefully be able to help you.

Rose

John Walch wrote:

Rose-

I have received the file that you forwarded to our office on 2/19/08 for the Perry/Young Property in Dudley, Wayne Co. Your cover memo references a "draft report" that was forwarded to our office by Mike Cunningham of the DWQ. I have been unable to locate this report in the information forwarded to our Branch by DWQ since the reorganization. Do you have a copy of this report that you could send me?

Thanks John Walch

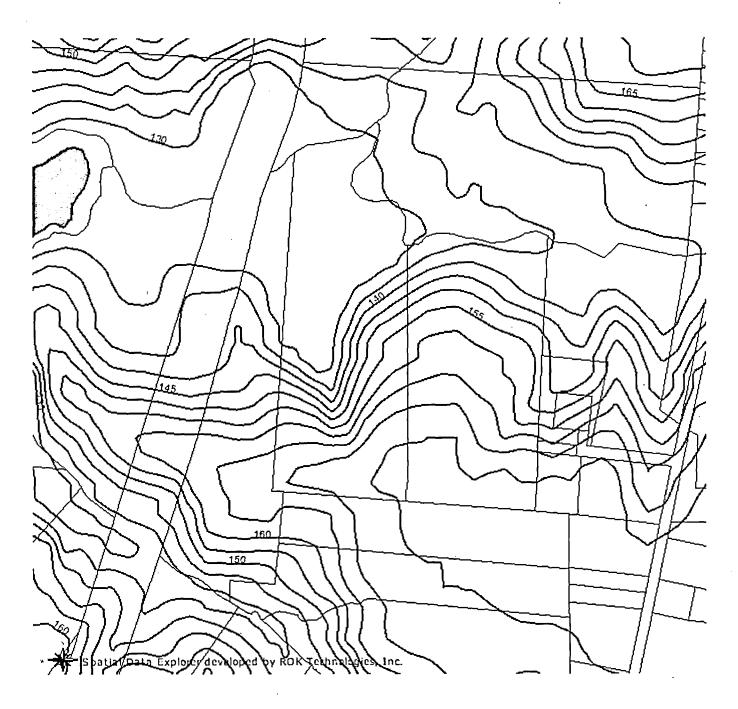
Page 1 of 3

احدة	i Name:	JOHNNI	E PERRY PROPERTY	Region/County: WARO / WAYNE Co	unty.
Ground	water Incid		97538	Ranking Performed by: C.STONE	
Dat s: _	11-7-0				
·		GRO	UNDWATER CONTAMU SITE PRIORIT	H CAROLINA NATION INCIDENT MANAGEMENT Y RANKING SYSTEM eted by Regional Office)	
L	IMMIN	TENT HAZ	ARD ASSESSMENT	• :	Points Awarded
	A.	Vapor Har 20% of the	zard - free product in confined areas e lower explosive limit or at health	s or vapor phase contamination detected at or above concern levels, award 50 points total	
	B.	Fire - free excavation	product subject to ignition in expos ns, etc.; award 50 points total	sed areas such as surface water impoundments, streams	
II.		-	ESSMENT		_
	A_	1. ·]	ated Water Supplies Private, domestic water supply well 15A NCAC 2L groundwater qualit	l containing substances in concentrations exceeding by standards, award 10 points per well	·
	•	2.	Public or institutional water supply 15A NCAC 2L groundwater quality	well containing substances in concentrations exceeding y standards; award 20 points per well	
		3.	Exceedances of Class WS-1 surface discharge; award 20 points per surf	e water quality standards as a result of groundwater face water body impacted	
			Any water supply well identified in connecting to an existing public was irreplaceable well	items ILA 1 or ILA 2 that cannot be replaced by ater supply source; award additional 10 points per	?
	E.	Torest to	Uncontaminated Drinking Water S	Suppiies	
	-	1.	Private, domestic water supply loc release or known extent of contam	ated within 1500 feet down gradient of the discharge, institut, award 10 points per well	
		2.	Public or institutional water suppli- discharge, release or known extent	y well located within 1500 feet down gradient of the t of contamination; award 15 points per well	
		3.	Raw surface water intake for publicischarge, release or known exten	ic water amply located within 1/2 mile down gradient of t	he :::::::::::::::::::::::::::::::::::
		4	Any well identified in items IL B. 250 feet of the discharge, release 20 points total (not per well or int	1 or ILB. 2, or an intake item ILB. 3 located within or known extent of contamination; award additional take)	
	C.	Vapor I	Phase Exposure	· · .	••
		1.	Contaminant vapors detected in it lower explosive limit and health of	nhabitable building(s), but levels are below 20% of the concern levels, award 30 points total	
,,,,	ייים ביין	7.05	•		

•		2.	Contaminant vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.), but levels are below 20% of the lower explosive limit, award 10 points total	
III.	SOUR	CE ASSE	SSMENT	
•	A.	Uncontr soil, lan	rolled or Unabated Conteminant Source (including dump sites, stockpiles, lagoon, conteminated desplications, septic tanks, landfills, underground and above ground storage tanks, etc.)	 i
		1.	Suspected or confirmed primary source remains in active use and continues to receive a way product, wastewater or solid waste; award 30 points per source	
		2.	Active use of suspected or confirmed primary source has been discontinued or source was caused by a one-time release of product or waste; however, primary or secondary source continues to release product or contaminants into the environment, award 10 points per source	
IV.	ENVI	RONME	NTAL VULNERABILITY ASSESSMENT :	
	A.	Vertical above b	l Contaminant Migration - Literature or well logs indicates that no confining layer is present sedrock or within twenty feet of land surface; award 10 points total	
	B.		ntal Contaminant Migration - Data or observations indicate that no discharge points or aquifer inuities exist between the discharge, release or known extent of contamination and the nearest radient drinking water supply, award 10 points total	
	C.	Existing	g Groundwater Quality - The worst case monitor or supply well contains contaminant levels:	
		1.	At less than 10 times the 2L groundwater standards; award 5 points	5
		2.	Between 10 and 100 times the 2L groundwater standards, award 20 points	
		3.	Greater than 100 times the 2L groundwater standards, award 40 points.	
٧.	REGI (Put 2	ONAL O	FFICE RESPONSE (LETTER RANK) e line next to <u>all</u> conditions that apply.)	
	CATE	GORYA	(one or more of the following conditions are present)	
		1.	One or more water supply wells are contaminated and the persons using the wells are not served by an existing public water supply.	X
		2.	Petroleum vapors are present in confined areas at levels which pose a human health concern or an explosion hazard.	
		3.	A treated surface water supply is in violation of the drinking water standards set out in rules adopted by the Commission for Health Services under G.S. 130A-315.	
	CATE	CORY E	(one or more of the following conditions are present)	
	•	1.	One or more water supply wells are contaminated but the persons using the wells are served by an existing public water supply.	• .
			•	

2.	One or more water supply wells are in use within 1500 feet of the discharge, release orknown extent of contamination, the wells are not contaminated, and the persons using the well are not served by an existing public water supply.	
3.	Petroleum vapors are present in confined areas but do not currently pose a threat to numeri health or an explosion hazard.	
CATEGORY C	(both of the following conditions are present)	
1.	One or more water supply wells are present at a distance greater than 1500 feet of the discharge, release or known extent of contamination, and the persons using the wells are not served by an existing public water supply.	
. 2.	None of the identified water supply wells are contaminated.	
CATEGORY D	(both of the following conditions are present)	
1.	One or more water supply wells are present within 1500 feet of the discharge, release or known extent of contamination, but the persons using the wells are served by an existing public water supply.	
2.	None of the identified water supply wells are contaminated.	
CATEGORYE	(both of the following conditions are present)	
1.	Water supply well(s) are not present within 1500 feet of the discharge, release or known extent of contamination, and no known water supply well(s) are contaminated.	
2.	All persons within 1500 feet of the discharge, release or known extent of contamination are served by an existing public water supply.	-
	TOTAL POINTS AWARDED	
	#/Letter	

ArcIMS Viewer Page 1 of 2



			Page 1 of 3	n 0
	cident		2 1/2 2005	, <u> </u>
GV	V Inci	dent	File #: $\frac{y+189}{2}$ Date: $\frac{\alpha-10-\alpha005}{2}$	
			NORTH CAROLINA	
			NORTH CAROLINA GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT SITE PRIORITY RANKING FORM	D 1 1000)
	(To b	e co	mpleted by a North Carolina Licensed Geologist/Professional Engineer or by the appropriat	Points Awarded
I.	TM N	AINI	ENT HAZARD ASSESSMENT	roints Awarted
1.				_
	A.		por Hazard - free product in confined areas or vapor phase contamination detected at or above 6 of the lower explosive limit or at health concern levels; award 50 points total	O
	B.		e Hazard - free product subject to ignition in exposed areas such as surface water impoundments, eams, excavations, etc.; award 50 points total	O
II.	EX	POS	URE ASSESSMENT	
	A.	Со	ntaminated Water Supplies	
		1.	Private domestic water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 10 points per well	O
		2.	Public or institutional water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 20 points per well	
		3.	Exceedences of Class WS surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	_0_
		4.	Any water supply well identified above that cannot be replaced by connecting to an existing public water supply source; award additional 10 points per irreplaceable well	
	В.	Thi	reat to Uncontaminated Drinking Water Supplies	
		1.	Private, domestic water supply located within 1500 feet down gradient of the discharge or known extent of contamination; award 10 points per well	10
		2.	Public or institutional water supply located within 1500 feet down gradient of the discharge or known extent of contamination; award 15 points per well	
		3.	Raw surface water intake for public water supply located within 1/2 mile down gradient of the discharge or known extent of contamination; award 5 points per water supply system	
		4.	Any well or intake identified in items II B. 1 or II B. 2, or II. B. 3 located within 250 feet of the discharge or known extent of contamination; award additional 20 points total (not per well or intake)	20
	C.	Va	por Phase Exposure	
		1.	Contaminant vapors detected in inhabitable building(s), but levels are below 20% of the lower explosive limit and health concern levels; award 30 points total.	0

		2.	Contaminant vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.), but levels are below 20% of the lower explosive limit and health concern levels; award 10 points total	
III.	sc	URC	CE ASSESSMENT	
	Α.		controlled or Unabated Contaminant Source (including dump sites, stockpiles, lagoons, taminated soil, septic tanks, land fills, above ground storage tanks, etc.)	
		1.	Suspected or confirmed primary source remains in active use and continues to receive raw product, wastewater or solid waste; award 30 points per source	30
		2.	Active use of suspected or confirmed primary source has been discontinued or source was caused by a one-time release of product or waste; however, primary or secondary source continues to release product or contaminants into the environment; award 10 points per source	
IV.	EN	IVIR	ONMENTAL VULNERABILITY ASSESSMENT	
	A.		tical Contaminant Migration - Literature or well logs indicate that no confining layer is present ve bedrock or within twenty feet of land surface; award 10 points total	_[0_
	B.	disc	rizontal Contaminant Migration - Data or observations indicate that no discharge points or aquifer continuities exist between the discharge or known extent of contamination and the nearest down dient drinking water supply; award 10 points total	10
	C.	Exi leve	sting Groundwater Quality – The worst case monitoring or supply well contains contaminant els:	
		1.	At less than 10 times the 2L groundwater standards; award 5 points.	5
		2.	Between 10 and 100 times the 2L groundwater standards; award 20 points.	
		3.	Greater than 100 times the 2L groundwater standards; award 40 points.	
v.			RANKING (on the line next to all conditions that apply)	
	<u>CA</u>	<u>TEG</u>	ORY A (one or more of the following conditions are present)	
		1.	One or more water supply wells are contaminated and the person using the wells are not served by an existing public water supply.	
		2.	Contaminant vapors are present in confined areas at levels that pose a human health concern or an explosion hazard.	
		3.	A treated surface water supply is in violation of the drinking water standards set out in rules adopted by the Commission for Health Services under G.S. 130A-315.	
	<u>CA</u>	TEG	ORY B (one or more of the following conditions are present)	
		1.	One or more supply wells contaminated but the persons using the wells <u>are served</u> by an existing public water supply.	
		2.	One or more supply wells are in use within 1500 feet of the discharge or known extent of contamination, the wells are not contaminated, and the persons using the wells are not served by an existing public water supply.	

3.	Vapors are present in confined areas but do not currently pose a threat to human health or an explosion hazard.	
CATEG	SORY C (both of the following conditions are present)	
1.	One or more water supply wells are present at a distance greater than 1500 feet down gradient from the discharge or known extent of contamination, and the persons using the wells are not served by a public water supply.	
2.	None of the identified wells are contaminated.	
CATEG	GORY_D (both of the following conditions are present)	
1.	One or more wells are present within 1500 feet of the discharge or known extent of contamination, but the persons using the wells are served by an existing public water supply	
2.	None of the identified wells are contaminated.	
CATEG	GORY E (both of the following conditions are present)	
1.	Water supply well(s) are not present within 1500 feet of the discharge or known extent of contamination; and no known water supply wells are contaminated.	
2.	All persons within 1500' of the discharge or known extent of contamination are served by an existing public water supply.	
	SITE PRIORITY RANKING	
	#/Letter	
		\ c
I,	a Professional Engineer / Licensed Geologist (circle one	
used	(firm or company of employment) do certify that the informal to determine the site priority ranking is correct and accurate to the best of my knowled	

(Please Affix Seal and Signature)







Incident Report

Report Number: 200502429

Incident Type: Category: Incident Started:	Other 09/15/2005	On-Site Contact: First/Mid/Last Name: Company Name:	JOHNME John	Powers
County: City: Farm #:	Wayne	Phone: Pager/Mobile Phone:	(919)734-8455	/ (919)738-1144
Responsible Par Owner: Permit:	ty:	Reported By: First/Mid/Last Name: Company Name:	Kevin	Whitley
Facility: First Nam	e:	Address:	Wayne County B	
Middle Nam Last Nam Address	e:	City/State/Zip: Phone: Pager/Mobile Phone:	Goldsboro N (919)731-1174	C 27530
City/State/Zi Phone				
<u>Material Cate</u> ç	ory: Estimated Qty	UOM Chemical Name	Reportable Qty.	lbs. Reportable Qty. kgs.
):MM:SS Decimal	Position Method:		
Latitude:		Position Datum:		
Location of Incid Address: City/State/Zip	Young's Auto Center 4172 US Hwy 117 S Alto Dudley NO			

Report Created 09/15/05 11:10 AM Page 1

Caus	SelO	hsa	rvati	ion:

Wayne County Environmental Health Dept sampled water supply well. Sample came back with petroleum constituents. Homeowner (John Powers) is concerned. Homeowner and well is surrounded by Young's Auto Center. Suspect contamination is coming from the salvage pond. Health Dept to fax over lab

results. Homeowner has been contacted and advised not to drink the water.

Directions:

Young's Auto Center. 4172 US HWY 117 South (Alt), Dudley NC 28333.

Action Taken:	Comments:
	Comments.
Scheduled visit.	
Incident Questions:	
Did the Material reach the Surface Water? Unknown	Conveyance:
Surface Water Name?	Conveyance .
Did the Spill result in a Fish Kill? Unknown	Estimated Number of fish?
If the Spill was from a storage tank indicate type.	(Above Ground or Under Ground)
Containment? <u>Unknown</u> Cleanup Complete? Unknown	
Cleanup Complete?	
Water Supply Wells within 1500ft: Unknown	Groundwater Impacted: Unknown

Event Type Event Date Due Date Comment Incident closed

Requested Additional Information

Report Entered 2005-09-15 11:03:34 Incident Start 2005-09-15 10:45:00

09/15/05 11:10 AM Page 2 Report Created

2005-09-14 03:00:00 Report Received Referred to Regional Office - Primary Contact 2005-09-14 03:00:00 Standard Agencies Notified: First Name **Contact Date Agency Name** M.I. Last Name Phone Other Agencies Notified: **Contact Date** Phone **First Name** M.I. **Last Name Agency Name DWQ** Information: Report Taken By: Report Entered By: **Regional Contact:** L May L May Robert Boone David David Phone: 2005-09-14 03:00:00 PM 2005-09-14 03:00:00 PM 2005-09-15 11:03:34 AM Date/Time:

Referred Via: Phone

Did DWQ request an additional written report? If yes, What additional information is needed?

Phone

Report Created 09/15/05 11:10 AM Page 3

AQUIFER PROTECTION SECTION APPLICATION REVIEW REQUEST FORM

<u>Date</u> : August 31, 2005	
To: Landon Davidson, ARO-APS Art Barnhardt, FRO-APS Andrew Pitner, MRO-APS Jay Zimmerman, RRO-APS	☐ David May, WaRO-APS ☐ Charlie Stehman, WiRO-APS ☐ Sherri Knight, WSRO-APS
From: Thomas Slusser . Groundwater Protection Unit Telephone: (919) -15-6166 (115) E-Mail: thomas.slusser@nemail.net	Fax: (919) 715-0588
A. Permit Number: WI070008	250
B. Owner: ASHTON LEWIS LUMBER COMPANY	SEP - 7 2005
C. Facility/Operation: Proposed \(\sum \) Existing	WASHINGTON REGIONAL OFFICE DWQ Facility Operation
Recycle IE Lagoon	
For Residuals: Land App. Delta Solution Land App. Delta Solution Delta Solu	&M Surface Disposal 3 Exempt Animal
E. Comments/Other Information: I would like to accommend	
Attached, you will find all information submitted in support of review, comment, and or action. Within 30 calendar days, pleas	
Return a Completed Form APSSRR. Attach Well Construction Data Sheet. Attach Attachment B for Certification by the LAPCU.	
 Issue an Attachment B Certification from the RO*. * Remember that you will be responsible for coordinating information requests with other RO-APS representatives in certification. Refer to the RPP SOP for additional detail. 	
When you receive this request form, please write your name an of this sheet, and return it to the appropriate Central Office-A listed above.	
RO-APS Reviewer:	<u>Date</u> :

· Complaint for BIMS

Reported To: David May 3:00 - 9-14-05
Reported by: Kevin Whitley - Wayne County Environmental Health Dept,
919 -731 - 1174

Problem - Wayne County EHD sampled water supply well,

Sample came back w/ petroleum constituents.

Homeowner is concerned. Homeowner and well

is surrounded by Youngs Auto Contor, Suspect

contamination is coming from the salvage yard.

Health Dept to fax over las results Homeowner

has been contacted and advised not to drink the water.

Home owner - John Powers cell - 919-738-1144 home 919-734-8455

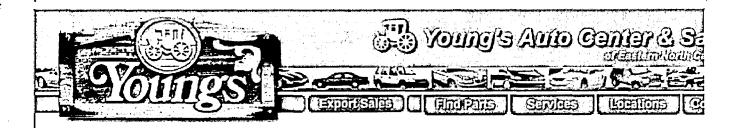
Location - Youngs Auto Center

1820
4172 US HUY 117 South (AIL)

Dudley NC

Wayne County

200502424



Visit or Contact Us at our following Locations:

Young's Auto Center & Salvage

2500 NC 242 South Benson, NC (919) 894-4525 (800) 800-2290 Map to Location

E-Mail

Spring Lake Auto Center

1305 Hwy 210 North Spring Lake, NC (910) 436-3820 (866) 201-4604 Map to Location E-Mail

Young's U-Pull-It

4172 US Hwy 117 South

Dudley, NC (919) 734-3446 (800) 672-5844

Young's Export Sales

Young's Auto Center

878 Hwy 231 South Spring Hope, NC (910) 478-4116 (800) 800-1952 Map to Location E-Mail

Young's Auto Center & Salvage

4172 US Hwy 117 South (Alt)

Dudley, NC (910) 734-2442 (800) 672-5844 Map to Location E-Mail

Young's Auto Crushing Division

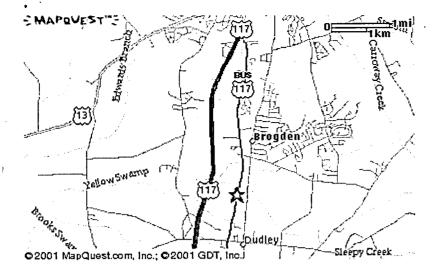
2500 NC 242 South Benson, NC (800) 800-1992 (919) 894-9566 (cell)

E-Mail

Copyright \$2001 Young's Auto Center, \$297-2001 Car-Fart.com All r

Home was 1997

9/14/2005



1 of 1

SAMPLE PROBLEM County LONG Lo	GROUNDWATER FIELD/LA	B FORM	North Carolina Department of Lovironment and Notwal Resources DIVISION OF WATER QUALITY-GROUNDWATER SECTION
Common C	Quad No Serial No. Lat. Long. Report To: ARO, FRO, MRO, RRO (WaRO) V	VIRO.	PRIORITY In pency Party Date Received time: 3 Rec'd By From:Bus, Courier, Hand Det., Other Data Lutry By: Clc
Fig.	Shipped by: Bus Courier Hand Del., Other: Collector(s): STORE FIELD ANALYSES pH 400 Spec. Cond Temp. 10 "C Odor Appearance	Purpose; Date 9 27:05 Time 10:35 AQ Daseline (Commer C) 223 (Comm	Complaint) Compliance, LUST, Pesticide Study, Lederal Trust, Other: E. DE HUCCO 11,20 to be to many point Samuele Interval
COD High 340 mg/L Floodide 851 mg/L A Absolution 46557 mg/L COD Low 335 mg/L Hindness: Total 900 mg/L Hindness: Total 900 mg/L Hindness: Total 900 mg/L Hindness: Total 900 mg/L Hindness (non carb) 602 mg/L Hindness (non carb)	LABORATORY ANALYSES	Remarks	(Pumping time, alr temp , etc.)
Collorn: MF Total 31504	100 310 mg/L	Disa, Bolida 70300 mg/l. Ag Sili Fluorida 951 mg/l. Al Alin Hordress: Total 900 mg/l. As Ars	minum 46557 ug/l Ogranophosphorus Pesticides seule 46551 ug/l Nitrogen Pesticides
Residue, Suspended 530 regit. Stiffdo 745 regit. Cu Copper 48562 rigit re from 46563 rigit. re from 46564 rigit. re from 46563 rigit. re from 46564 rigit. re from 465	Collform: MC Total 31504	Phenola 32730 bg/l Co Co Specific Cond. 95 uMhos/cm Cd-Cn	olchin 46552 (1974) PCD4 PCD4
pH 403		Sulfide 745 mg/l. Cu Co	pper 46562 ug/l Scrotvolattle Organica
Carbornie 445 mg/L ME as N 040 mg/L MC as N 025 mg/L Mc as	The second section is a second section of the second section of the second section sec	IC Pelu	คริสัตก 46555 เบลูA
Chiorida 940 mp/l. P: Total on P 665 mg/l. So-Selentum ug/l Zn Zhe: 46567 ug/l LAB USE ONLY Lemperature on antival:	Garborate 445 ing/L. Blexborate 440 ing/L.	NH ₃ ns N 010	diuo 46556 - ng/l HTT Gasoline Ruige ket - ug/l HTT HTTX Gasoline Ruige
Gyanida 720 mg/t. Temperature on antival:	Chilodda 940 mg/l.	P: Total on P 605 mg/l Se-Se	lenlum ug/t uc 46567 ug/t
LINE VARIOUS AND	Cymlda 220 mg/L	Nitrito (NO ₂ as N) 615 mg/l.	

For Dissolved Analysis submit filtered sample and with "DIS" in block.

GW 54 REV. 110.1

GROUNDWATER FIELD/LAB FORM					North Carolina				
			DIVIS	Department of Environment and Natural Resources DIVISION OF WATER QUALITY-GROUNDWATER SECTION					
Report To: ARO, FRO, MRO, R VSRO, Kluston FO, Fod. Trust	ial No. g. RRO (WalkO W , Central Off., C I Del., Other: Spec. Cond. C Odor	13 Wai 13 Soft 13 Office 13 Office 14 Office 15 Wai 13 Office 15 Office 	Purpose: Owner PCC S"C Location of Si	Baseling Complaint Complian RESTRICT US They N' I's sampling point (SUB) A SI	Lab North Parker Rec'd Bother Data Lin Date Reception Control (A 124 2707)	inber eceived Time: 3 ly From Bus, Courier, Hand Del. stry By: Ckc eported: side Study, Lederal Trust, Other:			
leld Analysis By: ABORATORY ANALYSES			Remarks	Dono.	tailer etc.) (Pumping time,				
000 310	mg/L	Disa, Bolida 70300	ng/l,	An Silver 46586	09/1	Oppobichlodoo Pestleides			
COD High 340		Fluorida 951	tog/L	Al Aluminum 46557	01/4	Orphophorus Pesikides			
COD Low 335	mg/L	Hardness: Total 900	mg/L	As Arsenic 46551	0)/4	Nitrogen Pesticides			
Collom: MI-Fecal 31010	/100ml	Hudness (non corb) 9		Da Badon 46558	1971	Add Herbiddes			
Collform; Mf Total 31504	/100ml	Phonois 32730	ig/l	Cn Calclum 46552	mg/t.	PCBs			
100 000	mg/L	Specific Cond, 95	uMhos/cm	Cd Cudmlum 46559	υμη				
Lintidity 20	NIU	Sullate 945	mgA.	Cr Chromlum 46559	09/1				
Rasidua, Suspended 530	mg/L	Sulfido 745	tng/l.	Cu Copper 46562	09/1				
				Le hon 46563	ug/i 🔀	Semiyolatile Organics			
		Oll and Groupe	mg/l	Hg Mercury 7 1900	ug/I	1121 Deset Bange			
ρ11 403	units			K Potasslom 46555	uga				
Alkoholty to pH 4,5 410	mg/t.			Mg-Magneshin 40554	nuj/l				
Alkoliulty to pt 10,3 415	(1)()/L			Mu Manganese 46564	ug/t	Volatile Organics (VOA bottle)			
Curbonuto 445	mg/L.	NH ₂ na N 010	tog/L	Na Sodium 46556	mg/t	1141 Gasoline Ronge			
Blavbounto 440	rng/L	1KH na N 025	ну/1,	Ell Blicket	ug/t	IPH DIFX Gasolim Ruige			
DESTENDING 1910	1			I have been a	()				
Carbon dloxido 405	mg/l.	NO, + NO, ns N 030	mg/L	Ph Lend 46564	ug/I				
		NO ₂ + NO ₂ ns N 030 P: Total on P 605	mg/L mg/L	Ph Lend 46564 Su Selenhan	oily riily	-			
Carbon dloxida 405	mg/L		mg/L	1 1	ug/t ug/t				
Caibon doxido 405 Chiodo 940	mg/t.	P: Iolal on P 605	mg/L mg/L	So Selenton	ug/t ug/t, 1 <u>.</u> Al	ds USE ONLY roperature on anival:			

GW 54 Til.V. 1/0.1

North Carolina

DIVISION OF WATER QUALITY

COUNTY: WAYNE QUAD NO: REPORT TO: WARO COLLECTOR(S): C STONE DATE: 9/27/2005 TIME: 10:35 PURPOSE: COMPLAINT	Regional Of	fice W	SAMPLE PRIORITY OUTINE X CHAIN OF CUSTODY	Report / Ground Water Quality EMERGENCY RIP BLANK D H2O			Lab Number : 5G2373 Date Received : 9/28/2005 Time Received : 9:00 AM Received By : DS Released By : JSW Date reported : 10/3/2005
LABORATORY ANALYSIS	<u> </u>					_	T
BOD 310	mg/L_	Diss. Solids 70300	mg/L	Ag-Silver 46566	ug/L	⊩	Organochlorine Pesticides
COD High 340	mg/L_	Fluoride 951	mg/L,	Al-Aluminum 46557	ug/L	\vdash	Organophosphorus Pesticides
COD Low 335	mg/L_	Hardness: total 900	mg/L	As-Arsenic 46551	ug/L	\vdash	Nitrogen Pesticides
Coliform: MF Fecal 31616	/100ml	Hardness: (non-carb) 902	mg/L	Ba-Barium 46558	ug/L	-	
Coliform: MF Total 31504	/100ml	Phenols 32730	ug/L	Ca-Calcium 46552	mg/L	\vdash	Acid Herbicides
тос	mg/1	Specific Cond. 95	umhos/cm2	Cd-Cadmium 46559	ug/L	\vdash	
Turbidity	NTU	Sulfate	mg/L_	Cr-Chromium 46560	ug/L	┝	Semivolatiles
Residue., Suspended 530	mg/L	Sulfide 745	mg/L	Cu- Copper 1042	ug/L_	-	TPH-Dieset Range
Total Suspended solids	mg/L_	MBAS	mg/L	Fe- Iron 1045	ug/L	\vdash	
		Oil and Grease	mg/L	Hg- Mercury 71900	ug/L	X	Volatile Organics (VOA bottle)
pH	units	Silica	mg/L	K-Potassium 46555	mg/L	\vdash	
Alkalinity to pH 4.5	mg/L	Boron		Mg- Magnesium 927	mg/L	1	TPH-Gasoline Range
Alkalinity to pH 8.3	mg/L	Formaldehyde	mg/L	Mn-Manganese 1055	ug/L	\perp	TPH-BTEX Gasoline Range
Carbonate	mg/L	NH3 as N 610	mg/L	Na- Sodium 929	mg/L	L	
Bicarbonate	mg/L	TKN as N 625	mg/L	Ni-Nickel	ug/L	_	
Carbon dioxide	mg/L_	NO2 +NO3 as n 630	mg/L,	Pb-Lead 46564	ug/L	<u> </u>	
Chloride	mg/L	P: Total as P 665	mg/L	Se-Selenium	ug/L	L	
Chromium: Hex 1032	ug/L	PO4	mg/L	Zn-Zinc 46567	ug/L	\perp	
Color: True 80	c.u.	Nitrate (NO ₃ as N) 620	mg/L			L	<u> </u>
Cyanide 720	mg/L	Nitrite (NO ₂ as N) 615	mg/L			L	<u></u>
COMMENTS:							

Denaitment of Environment and Natural Resources GROUNDWATER FIELD/LAB FORM DIVISION OF WATER QUALITY-GROUNDWATER SECTION SAMPLE PRIORITY SAMPLE TYPE M Water ☐ Rouline Lab Number JUNATURE . TOP County Emergency □ Soil Date Received BIANK Serial No. Quad No Tom:Bus Courier Hand Del. ☐ Other Rec'd By: Other: Chain of Custody Data Entry By: Report To: ARO, FRO, MRO, RRO (WaRO) WIRO, Date Reported: WSRO, Kinslon FO. Fed. Trust, Central Off., Other: Shipped by: Bus Courier Hand Del., Other: Purnose: Date 9 27-05 Time 10:55 AM Baseline Complain Compliance, LUST, Peslicide Study, Federal Trust, Other. Owner GREAT VALUE DETILLO Had being complained. C.STONE Collector(s): FIELD ANALYSES Location or Sile at 25°C Spec. Cond.sa DH ann Description of sampling point °C Odor Temp. 10 Sample Interval Sampling Melhod Appearance TPIGITO BAIEC BIES Remarks Field Analysis By: (Pumping time, nir temp., etc.) LABORATORY ANALYSES An Silver 46566 Organtichloitne Pesticides un/L Disa, Solida 70300 ma/L BOD 310 Al-Aluminum 46557 ug/L Organophosphorus Pesticides ma/L Fluoride 951 ma/L COD High 340 As-Arsenic 46551 Nitrogen Pesticides mq/L ug/L Hardness: Total 900 mg/L COD Low 335 Acid Herbicides Ba-Barlum 46550 ug/L Hardness (non-carb) 902 mg/L /100ml Collorn: MF Fecal 31816 Ca-Calclum 46552 PCBs ับสุก mg/L Phenois 32730 · /100ml Collonn: MF Total 31504 Cd-Cadmlum 46559 սը/Լ uMhos/cm Specific Cond. 95 mg/L TOC 680 Cr-Chromlum 46559 ma/L ug/l, Sullate 945 NTU Turbidity 76 Cu-Copper 46562 ug/L mg/L Sulfide 745 Residue, Suspended 530 mg/L Fe-Iron 46563 Semivolatile Organics ug/L TPH-Diesel Ranno Hg-Mercury 7 1900 ug/L mm/L Oll and Grease K-Potassium 46555 nig/L undis pH 403 Mg-Magnestum 46554 mg/L mg/L Alkalinity to pH 4.5 410 Volatile Organics (VOA bottle) Mn-Manganese 46565 nily Alkalinity to pH 0.3 415 mg/L Na-Sodium 46556 TPH-Gasoline Range mg/L NH, as N 610 mg/L ma/L Carbonate 445 NI-Nickel TPH-BTEX Gasoling Range ug/L mg/L TKN as N 625 mg/L Blearbonala 440 Pb-Lead 46564 ug/L NO, + NO, as N 630 mg/L mg/L Carbon dloxido 405 Se-Selenium ug/L ma/L P: Total os P 665 Chlorida 940 mo/L Zn-Zinc 46567 ug/L mg/L Nitrate (NO₁ as N) 620 ug/L Chromlum: Hax 1032 LAB USE ONLY mg/L Nitrite (NO₂ as N) 615 CH Temperature on arrival: Color: True 80 mg/L Cyenide 720 I ab Comments

North Carolina

GW-54 REV. 7/03

ENR/DWQ LABORATORY **VOLATILE ANALYTICAL REPORT**

LAB NO. 5G2373

ENTERED BY J

REPORTED BY CHECKED BY REVIEWED BY

SAMPLE TYPE: WATER

ANALYTICAL RESULTS

	VOA TARGET COMPOUND	PQL	DETECTED		VOA TARGET COMPOUND	PQL	DETECTED
CAS#_		ug/L	ug/L	CAS#		ug/L	ug/L
					=	0.05	
75-71-8	Dichlorodifluoromethane	0.25	U	630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
74-87-3	Chloromethane	0.50	U	75-25-2	Bromoform	0.50	U
75-01-4	Vinyl Chloride	0.50	U	79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
74-83-9	Bromomethane	0.50	U	96-18-4	1,2,3-Trichloropropane	0.25	Ü
75-00-3	Chloroethane	0.50	U	108-86-1	Bromobenzene	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U	95-49-8	2-Chlorotoluene	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
75-09-2	Methylene Chloride	10	Ŭ	541-73-1	1,3-Dichlorobenzene	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	Ŭ	95-50-1	1,2-Dichlorobenzene	0.25	U
594-20 -7	2,2-Dichloropropane	0.25	Ŭ	96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	ប	87-68-3	Hexachlorobutadiene	0.25	U
74-97-5	Bromochloromethane	0.25	Ŭ	87-61-6	1,2,3-Trichlorobenzene	0.25	บ
71-55-6	1,1,1-Trichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	71-43-2	Benzene	0.25	บ
56-23-5	Carbon Tetrachloride	0.25	U	108-88-3	Toluene	0.25	U
107-06-2	1.2-Dichloroethane	0.25	U	100-41-4	Ethyl benzene	0.25	U
79-01-6	Trichloroethene	0.25	Ŭ	108-38-3	m,p-Xylenes	0.50	U
78-87 - 5	1,2-Dichloropropane	0.25	บ	95-47-6	o-Xylene	0.25	U
75-27 - 4	Bromodichloromethane	0.25	บ	100-42-5	Styrene	0.25	U
74-95-3	Dibromomethane	0.25	Ü	98-82-8	Isopropylbenzene	0.25	υ
10061-01-5	cis-1,3-Dichloropropene	0.25	Ũ	103-65-1	n-Propylbenzene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	Ŭ	108-67-8	1,3,5-Trimethylbenzene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	บั	98-06-6	tert-Butylbenzene	0.25	Ū
127-18-4	Tetrachloroethene	0.25	บั	95-63-6	1,2,4-Trimethylbenzene	0.25	ū
142-28-9	1,3-Dichloropropane	0.25	Ŭ	135-98-8	sec-Butylbenzene	0.25	Ũ
124-48-1	Dibromochloromethane	0.25	Ŭ	99-87-6	p-isopropyltoluene	0.25	Ū
106-93-4	1,2-Dibromoethane	0.25	บ	104-51-8	n-Butylbenzene	0.25	บ
	•	0.25	Ŭ	91-20-3	Naphthalene	0.25	บ
108-90-7	Chlorobenzene	0.23	U	51-20-3	Napritilalerio	0.23	•
				Minimud at a Section of		mg/L	mg/L
501	Secretaria Comentantina Manta College			Carattan Danas E	stimated Total Petroleum Hydrocarbon	0.20	x
PQL	Practical Quantitation Limit- Subject to			Gasoline Range c	stimated Total Petroleum Hydrocarbon	0.20	^
	change due to instrument sensitivity					L	
N-	Tentatively Identified, not confirmed			Other purgeables			Detected
J-	Estimated Value			(up to 10 highest	peaks)		ug/L
U٠	Samples analyzed for this compound but i	not detecte	d				
Х-	Sample not analyzed for this compound					_	
N3-	Estimated concentration is <pql and="">MI</pql>	ור		NO VOLATILE O	RGANIC COMPOUNDS		
#				DETECTED BY GC/MS.			
#	GC/MS Analysis performed DETECTED BY GC/MS.				-		
						-	
COMMENTS:						-	
COMMENTO.							